

The CHEMIST AND DRUGGIST

RETAILER - WHOLESALE - MANUFACTURER

1859

2 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

3.5
XII

MARCH 9, 1940

Annual Subscription (with
Diary) 20/- Single Copies 9d.

DAGENAN

M & B 693
TRADE MARK

SULPHAPYRIDINE

READ THIS TO AVOID CONFUSION

"DAGENAN—M & B 693" is the proprietary name of the drug introduced under what was its mere experimental number "M & B 693." "Sulphapyridine" is the generic or common name which was adopted for this drug in the United States and is now gaining increasing currency in the country. Each of the three terms designates the compound 2-sulphamoyl-aminopyridine which has proved so remarkably successful in acute bacterial infections.

On prescriptions calling for this preparation under any of the above descriptions only our product may be dispensed.



**PHARMACEUTICAL SPECIALITIES
(MAY & BAKER) LTD. DAGENHAM**

TRADE ANNOUNCEMENT

NO INCREASE IN PRICES

It is the intention to maintain the present retail prices of 'ALKA - SELTZER' BRAND TABLETS despite altered conditions arising out of the war. Only unfavourable developments in future beyond our control will cause a departure from this policy.

A TIMELY CAUTION ABOUT STOCKS

'Alka-Seltzer' is manufactured in Canada. Supplies from overseas, therefore, are subject to possible delays due to disturbed shipping conditions. While provision is being made as far as practicable for this contingency, and while no difficulty is anticipated in filling orders from the trade, *nevertheless good judgment suggests that chemists maintain a reasonable reserve stock above normal peace-time requirements.*

DISPLAY DISCOUNTS

Generous discounts from Trade Prices are allowed on display parcels of 'Alka-Seltzer.' These additional discounts start on display orders having a value at Trade Prices as low as £1.7.0.

SEND TO-DAY FOR PRICE LIST WITH FULL DETAILS

Sole Distributors : Don S. Momand Ltd., 10-15 Chitty Street, London, W.1

Telephone :
Museum 6872 (3 lines)

Telegrams :
Donsmo, Rath, London

RETAILING AT

**1/- and
2/-**



VINOLIA MARCHES ON

(1) We are continuing and increasing National advertising on behalf of the 9d. Vinolia Shaving Stick in Bakelite Drainer case and the 7½d. Refill.



(2) We are adopting a cream-and-blue container for the 1/- Stick, to replace the polished aluminium container (supplies of aluminium being unobtainable). This will still be sold in the original carton.



(3) We are catering for the huge demand from the Services and from industrial areas by issuing a new 3d. Economy Shaving Cake.

(4) For the higher-class market we are supplying Vinolia Shaving Cream in newly designed tubes and cartons.

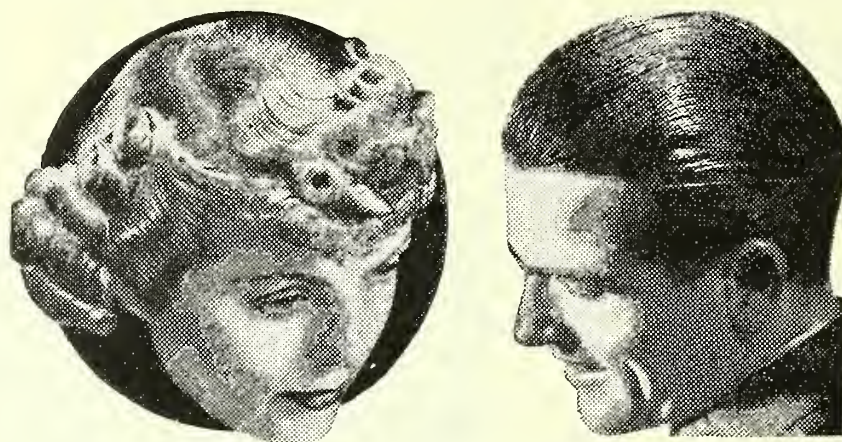
VINOLIA

V.T. 186/29

★ *Vinolia Shaving Products have always enjoyed the highest reputation with the Trade and the public alike. We are out to increase that goodwill by maintaining the famous Vinolia quality and by making innovations which will ensure continued supplies and help to give your customers better value than ever.*

Write for best terms to VINOLIA Co. Ltd., Bebington, Ches.





"HARLENE"

HAIR TOILET PREPARATIONS

Always in Demand

The Harlene range of Hair Toilet Preparations supplies every hair need of both men and women. An extensive advertising campaign which is always in operation, backed by the real

HARLENE

HAIR GROWER AND TONIC

CREMEX SHAMPOO
 UZON BRILLIANTINE
 HARLENE WAVE-SETTING LOTION
 ASTOL HAIR COLOUR RESTORER
 HARLENE CAMOMILE GOLDEN HAIR
 WASH
 HARLENE CAMOMILE SHAMPOO
 HARLENE GOLDEN WAVE-SET
 HARLENE HAIR CREAM
 HARLENE Soapless
Brushless SHAVING CREAM
 HARLENE SCALP OINTMENT

merit of the preparations themselves, ensures a regular demand for these always popular lines.

Check up your needs now from the range alongside. Harlene Preparations are second-to-none, and are always ready sellers, as they have been for over 50 years.

**SEND
 YOUR
 ORDER
 TO-DAY**

EDWARDS HARLENE LTD.

20/26 Lamb's Conduit Street, London, W.C.1

Coty ANNOUNCE

A new 10d. size Tissue Skin Food



TO reach the lower-price market, and increase through better knowledge the sale of larger sizes, Coty have produced this special 10d. trial size of Tissue Skin Food. The regular sizes — Dressing-table Jar at 3/6 and Large Tube 1/6 — are going strong, but here is an opportunity for new business. Coty

Tissue Skin Food is not dependent on mere claims — it *really* feeds and builds starved tissues, correcting and preventing lines and wrinkles. You cannot sell a finer product.

THE COUNTER DISPLAY BOX MAKES SALES

Handy, neat, cleanly-designed, it takes up very little room on the counter. The price is exactly right for lower-income customers.

No. 1447 P.M. — Counter Display Box containing:—

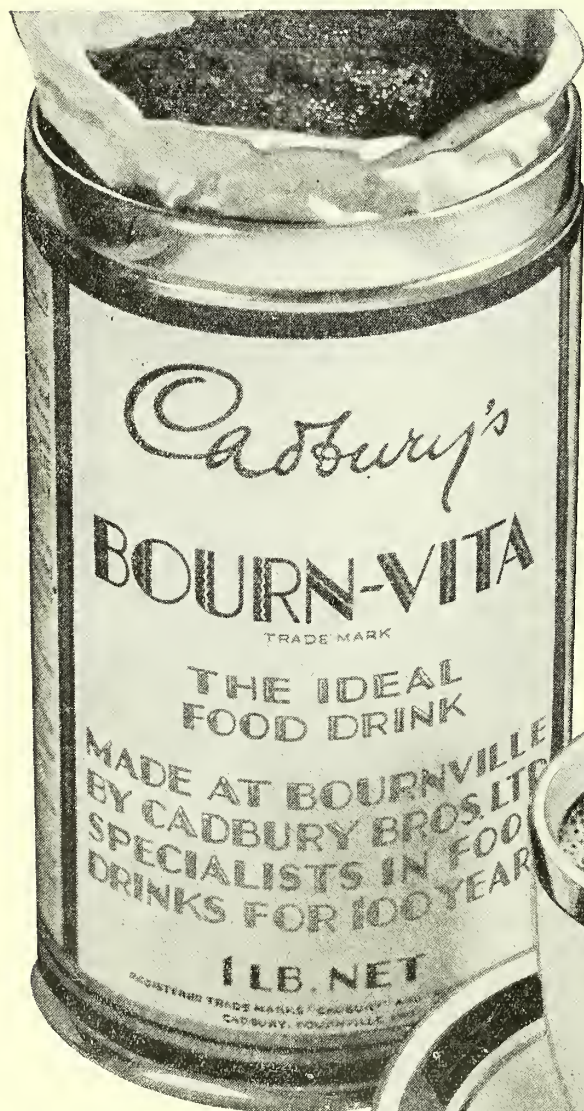
12 Tissue Skin Food Trial Size at 10d.	...	...	...	10. od.
Less 33 1/3%	...	...	...	3. 4d.
				6. 8d.

Show this new Trial Size box together with a display of the regular sizes of Coty Tissue Skin Food.

No. 1446 N	Dressing Table Jar — Standard Size	3/6
„ 1446 bis	„ „ — Economy Size	5/6
„ 1447	Collapsible Tube (packed in boxes of six) each	1/6

Coty

Cadbury's **BOURN-VITA**



**THE IDEAL
FOOD DRINK**

**SOOTHES
NERVES
AND PROMOTES
DEEP
REFRESHING
SLEEP !**

$\frac{1}{4}$ lb 9^D. $\frac{1}{2}$ lb 1/5
1 lb 2/9

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mean more sales in
1940



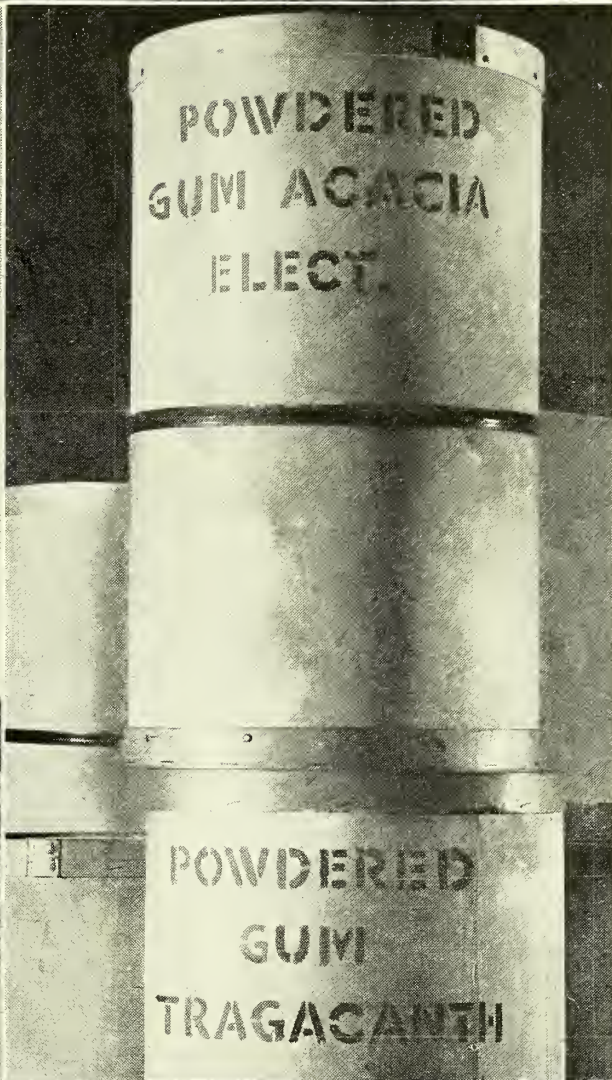
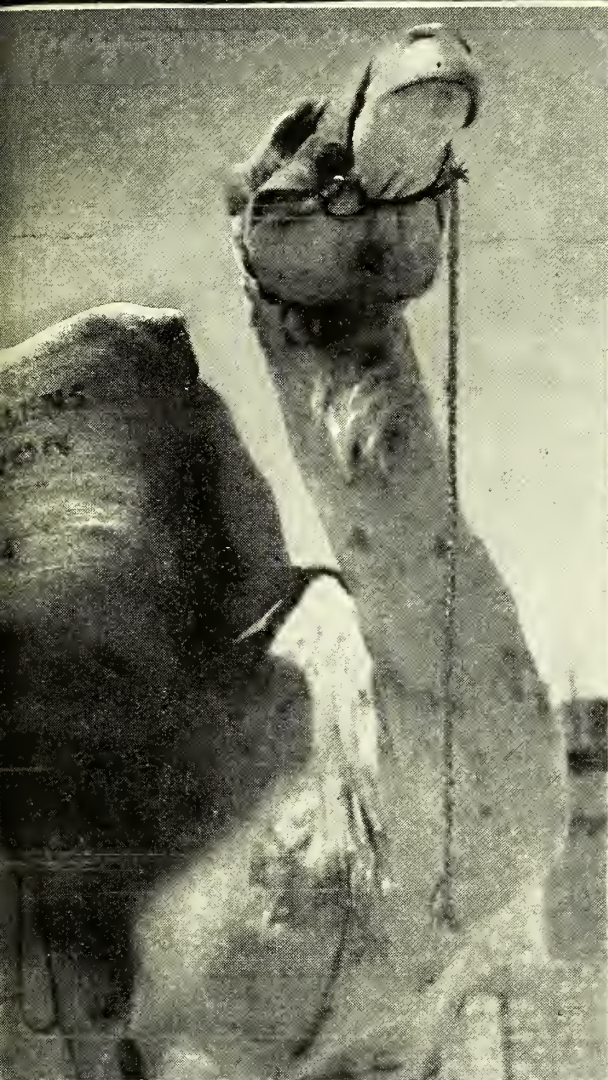
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Made from Fresh Fruit Essences—Particularly palatable
In BULK - CARTONS - BAGS & ROLLS
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Cellophane Rolls of 20 **13/-** per gross.
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56 lbs. @ $11\frac{1}{2}d.$ 112 lbs. @ $10\frac{1}{2}d.$

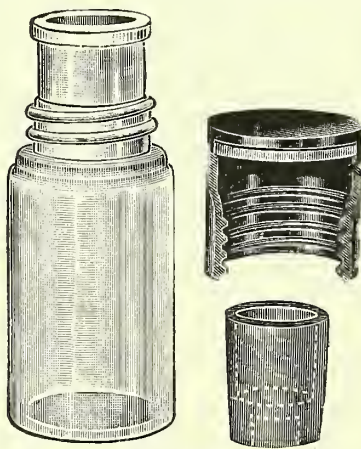
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THROAT PASTILLES

From all chemists 1/- tins. Smaller size 6d

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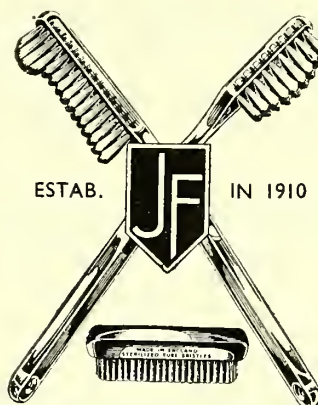
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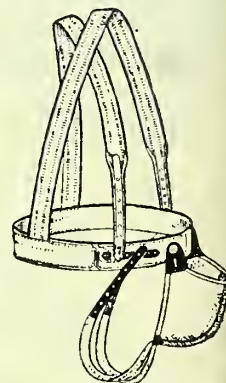
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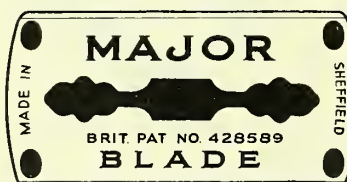
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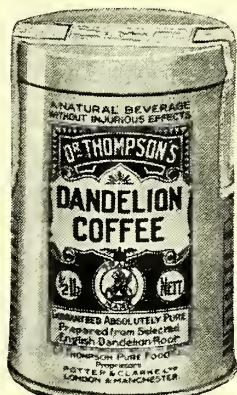


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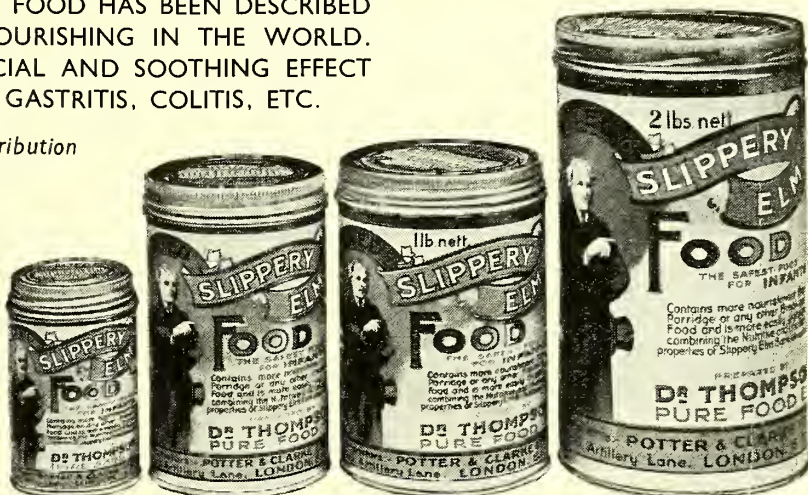
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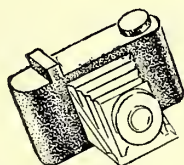
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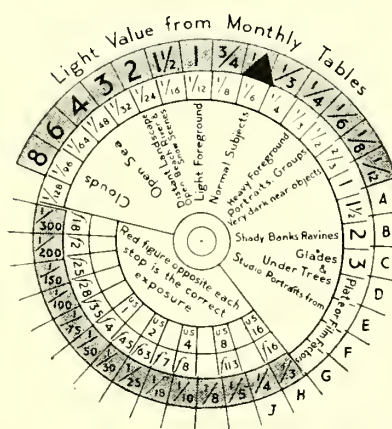
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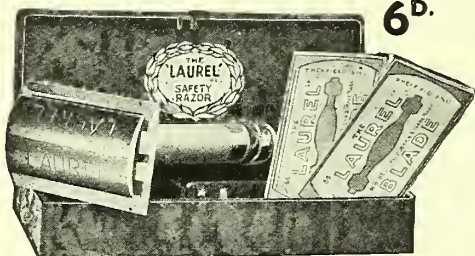
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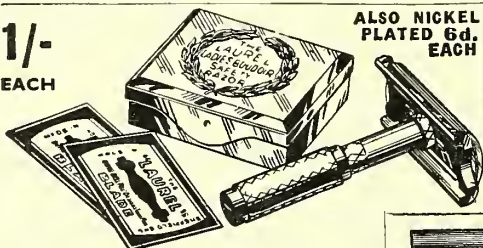
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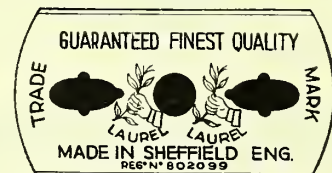
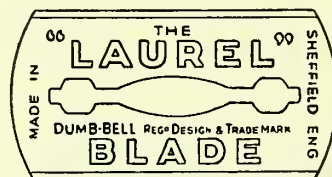


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The official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in Overseas Dominions

Published Weekly at

28 ESSEX STREET, STRAND, LONDON, W.C.2

Telegrams: "Chemicus, Estrand, London"

Telephone: Central 6565 (10 lines)

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NEWS OF THE WEEK

Cameras Stolen.—A number of valuable cameras were stolen during a "smash and grab" raid on the premises of E. C. & C. E. East, chemists, Faircross House, Watford, in the early hours of February 25. Cheaper models were neglected.

Lighting Offence.—At Chatham Police Court, on February 26, E. Beveridge, M.P.S., Gillingham, was fined 40s. for contravention of the lighting regulations. Evidence showed that every time the door opened a beam of light from a lamp inside the shop was reflected in a mirror inside the door.

Anglo-French Trade Talks.—Economic questions of concern to both countries are being discussed at the Anglo-French industrial talks being held in London. Lord Dudley Gordon, president of the Federation of British Industries, is the leading British spokesman, and among others taking part are Sir George Beharrell (chairman of the Dunlop Rubber Co., Ltd.), and Mr. W. J. U. Woolcock, M.P.S. (Imperial Chemical Industries, Ltd.). Following agreement on points of principle it is hoped that conversations will be held between individual British and French industries with the object of carrying into practical effect the general conclusions reached.

New Standard Specifications for Light-locks.—The British Standards Institution, at the request of the Air Raid Precautions Department of the Ministry of Home Security, has prepared a new specification (BS/ARP 15, February 1940) for light-locks to entrances to buildings. The specification supersedes BS/ARP 5, September 1939, and has been prepared under a joint committee of the Department and the Illuminated Engineering Society. Apart from details of light-locks partly encroaching on the pavement and "arcade" light-locks for multiple entrances, the standard repeats former specifications for shops and adds new information relating to factory entrances, swing doors for passage of hand trucks, screens for loading docks, etc. Copies, price 8d. post free, may be obtained from the British Standards Institution, 3 Victoria Street, London, S.W.1.

Wine Licence Applications.—At Brewster Sessions held recently, wine off-licences were granted to:—George William King, 561 Lincoln Road, Peterborough; Alexander MacDonald Graham, 12 Bridge Road, Peterborough; Parkstone & Bournemouth Co-operative Society, Ltd. (branch at 382 Ashley Road, Upper Parkstone); Peterborough Co-operative Society, Ltd. (two branches in the City and one at March); F. W. Whitwell, Ltd., 69r Lincoln Road, Peterborough. The following applications were refused:—Ranby's, Ltd., Derby; H. Standish (chemist), Ltd., 5 The Crescent, Orrell, and 42 Fernhill Road, Bote. When the Norwich Co-operative Society, Ltd., applied for a licence to sell wines at branches in St. Stephens and Magdalen Streets, Norwich, an objection was raised that some of the magistrates on the Bench were members of the Society. When these retired, insufficient magistrates were left to form a quorum, and the hearing was postponed.

Petrol for Commercial Travellers.—According to Mr. W. J. Lovell, general secretary of the United Commercial Travellers Association, an agreement has been reached under which commercial travellers will be able to obtain additional supplies of petrol. The scheme set up last November, he states, will be superseded, and the new scale will be fully operative from April 1. Commercial travellers who, under the old arrangement, were grouped in what was known as the pooling scheme, are receiving the additional allowance from March 1 on application to the appropriate divisional petroleum officer. Applications must be supported by the same documents proving the applicant's *bona fides* as were required under the old scheme. Commercial travellers who come within the provisions of the non-pooling arrangement will in most instances receive their coupons for the period February 1 to March 31. These will not be withdrawn, but from April 1 their rations will conform to the new scale. It has further been agreed that the special physical disability allowance will continue, provided medical certificates are produced to prove that the disability is of a serious nature. The scale of allowances is as follows: 1-7 h.p., 17 gallons; 8 h.p., 18 gallons; 9 h.p., 19 gallons; 10-12 h.p., 22 gallons; 13-15 h.p., 25 gallons; 16-19 h.p., 29 gallons; and 20 h.p. and over, 31 gallons. The effect of the new plan will be to treat all commercial travellers alike, irrespective of the number of travellers employed by a firm, thus removing one of the causes of complaint under the old arrangement.

Prices of Goods.—An Order entitled The Prices of Goods (Permitted Increase) Order, 1940, has been made by the Board of Trade adding to the first item of the First Schedule to the Prices of Goods Act, 1939 (viz. "Cost of the provision of materials, whether raw or semi-manufactured, and of stocks of goods, requisite for the carrying on of the business"), the following words: "and, subject to such conditions and limitations (if any) as the Board of Trade, on the recommendation of the Central Price Regulation Committee, may by regulations from time to time prescribe, liability under valid contracts for purchases at fixed prices for future delivery of such materials and stocks of goods." By Section 4 of the Act the permitted increase in the price of goods to which the Act applies means such increase as is reasonably justified in view of changes in the business in relation to the matters specified in the First Schedule taken as a whole. The effect of the Order is, therefore, that in determining the permitted price for any article, regard may be had to the cost not only of stocks or materials actually in the possession of the seller at the time of the sale, but also, subject to any conditions which may hereafter be imposed by regulation, to the cost of such materials and stocks as the seller may have on order under contracts at fixed prices for future delivery. The Order is retrospective in effect.

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Coloured Supplement

Blackpool Branch Dinner.—The annual dinner and dance of the Branch of the Pharmaceutical Society was held on February 28. About 100 were present. Members of the local branch of the Photographic Dealers' Association, who had cancelled their own annual dinner, had been invited, unofficially, to join the chemists. Mr. F. H. Studdard (president), welcomed the guests. The toast "The President" was proposed by Mr. A. R. Sidebottom, and "The Guests" by Mr. Morrison. Mr. Allan Barnes gave "The Ladies," the president's wife replying. Mr. Durkin officiated as toastmaster. Mr. Coop and Miss Fothergill were M.C.'s for whist, and Messrs. Sidebottom and Durkin for the dancing.

Sunday Opening at Southport.—Southport Town Council on March 5 approved an order, under the Shops (Sunday Trading Restriction) Act, 1936, that on Easter Sunday (March 24), Whit Sunday (May 12), Sunday May 19, and each Sunday between June 2 and September 8, inclusive, retail chemists' shops in any part of the Borough may be open until 9 p.m. to serve customers with photographic requisites. The Town Clerk reported that due notice of intention to make the order had been given and no objection had been received. Similar exemption orders were made in respect of articles for bathing, toys, souvenirs, and fancy goods; books, stationery, photographs, reproductions and postcards.

Wimbledon Pharmacists' Association and Branch.—A meeting of the above Branch was held on February 14, when Mr. H. Noble (National Pharmaceutical Union staff) gave an address on "Current Pharmaceutical Topics." Mr. J. R. Stewart was in the chair. Mr. Noble dealt with the Prices of Goods Act and with prices in general, saying now was the time to concentrate on Chemists' Friends goods. He also spoke on the War Risks Insurance Act, and liabilities arising from war conditions (such as customers falling over obstructions during the black-out). Mr. Noble answered a number of questions from members. A vote of thanks was proposed by Mr. P. Sparks and seconded by Mr. D. F. Watson.

Portsmouth Chemists' Red Cross Dance.—A dance in aid of the Lord Mayor's Red Cross Fund was held at Southsea on February 28, when over three hundred were present. The president of the Chemists' Association (Mr. H. A. McCoy), welcomed the Lord Mayor and Lady Mayoress of Portsmouth (Councillor and Mrs. D. L. Daley). The Lord Mayor expressed thanks for the effort on behalf of the Red Cross Fund. During the evening uniformed nurses made a collection which realised £6. Miss Xarifa Darling (president of the ladies' committee) handed the Lady Mayoress a bouquet of flowers after the Lady Mayoress had presented the prizes awarded. Dancing was kept up until midnight, Mr. R. G. Tremlett acting as M.C.

North Staffs Branch Activities.—A dance at Hanley on February 15 replaced the usual annual dinner and dance of the North Staffs Branch of the Pharmaceutical Society, cancelled owing to the war. A number of dance prizes were awarded. A raffle augmented the profit on the dance, and realised a substantial sum for charity. On February 22 the vice-chairman (Mr. John Martin) gave a cine show at which a collection was taken for the Society's Benevolent Fund. The programme included colour films made by Mr. Martin himself and films by Mr. H. S. Day (president, Stoke-on-Trent Cine Society), Dr. G. R. Hind and Mr. H. J. Bowyer, Leek. Members paid silent tribute to the memory of two members of the Branch who recently passed away—Messrs. W. D. Edge and E. Hodgson Todd. The president welcomed the Rev. H. H. Treacher (Rector of Hanley), the new chaplain of the Branch.

Bradford N.P.U. Branch.—Mr. E. A. Brocklehurst, Hull (a member of the executive, National Pharmacists' Union), spoke on "Present Conditions" to members of the Bradford branch on February 20. He said the Union had secured to chemists for pharmaceutical purposes a sugar allowance of 100 per cent. Dispensing and dressings for air-raid casualties would be provided by chemists and paid for at National Health Insurance prices. The Union was trying to secure dispensing for Service men on leave at N.H.I. rates, though without success at present. Resolutions from branches urging increased remuneration for N.H.I. dispensing had been carefully considered, but the Executive thought it would be unwise to press for an increase at the present time, in view of negotiations in progress regarding dispensing for evacuees. Mr. Sutcliffe cited increased overhead expenses and Mr. F. C. Wilson (a member of the Society's Council) the need for keeping bigger stocks as reasons for an increased remuneration. In a reply to Mr. S. H. Bolton, Mr. Brocklehurst said that war-risks insurance was still in operation and that unless

the premium had been paid by February 12 a fresh application would have to be made. The N.P.U. was merely a collecting agent for the Government, and had not the facility for sending out renewal notices. The problem of assisting chemists hit by evacuation had been found too big for the N.P.U. to undertake; the amount of money required would probably run into hundreds of thousands of pounds. The Union was supporting a national movement to help traders thus affected.

President at Plymouth Branch Dinner.—For the first time in the history of the Plymouth Branch of the Pharmaceutical Society the president of the Pharmaceutical Society was guest at its annual dinner and dance on February 28. The function was preceded by a branch meeting in the afternoon, at which one matter discussed was the unsatisfactory position of pharmacists in the Army. The Society's president (Mr. Walter Deacon) was the principal speaker, and at the dinner a warm welcome was extended to him by the local chairman (Mr. Fernley Wallis). Mr. Deacon recalled that the Pharmaceutical Society would next year be celebrating its centenary. In a century of useful work it had never been so active as at present. He said that the activities of the Plymouth Branch were highly appreciated. The dance arrangements were made by Mr. W. F. E. Eustace (social secretary of the branch), and Mr. D. G. Hawkins acted as M.C.

IRELAND

Dublin Strike Action.—The following firms, members of and associated with the Wholesale Section of the Irish Drug Association, announce their regret that their businesses may be closed from March 11, by reason of strike action on the part of their warehouse staffs:—

Ayrton, Saunders & Co. (Dublin), Ltd.
Boileau & Boyd, Ltd.
P. C. Cahill & Co., Ltd.
May, Roberts (Ireland), Ltd.
St. Dalmas (Ireland), Ltd.

The dispute arose out of a demand made by the Irish Transport and General Workers' Union. After full consideration the wholesalers made an offer of a 4s. all-round increase to male employees over twenty-one years of age, and 2s. to women workers, boys and youths. Similar offers made by the firms involved, and by others in the wholesale drug trade, have been accepted by the Amalgamated Transport and General Workers' Union, the Irish Automobile Drivers' and Mechanics' Union, and the Irish Women Workers' Union. In March 1938, the Association concluded an agreement on behalf of the firms involved in the present dispute, in which conditions and rates of pay were for the first time standardised. The conclusion of that agreement provided for minimum increases ranging from 2s. 6d. to 5s., and in some instances employees received considerably more. A factor of considerable importance in the present dispute is that Eire is not at war, and there is no expenditure of public monies on a large scale to compensate for adverse effects of the war upon trade generally. The wholesale drug trade has in fact experienced a not inconsiderable depression for the past three months. Including the recent offer, wages payable in the wholesale drug trade in Dublin are as follows:—

Stock-keepers									
Checkers									
Machine maintenance men									
Senior assemblers									
Packers									
Utility men									
Porters	..	..	..	..	..	..	63s. od.	..	..
Yardmen and male bottle washers	..	..	..	..	..	..	60s. od.	..	..
Float drivers	..	..	..	..	..	..	68s. 6d.	..	..
Boys (aged 14-18)	..	..	..	..	..	..	From 18s. to 29s.	..	..
Youths (aged 18-21)	..	..	..	..	..	..	From 33s. to 49s.	..	..
Motor drivers:									
(a) City	..	..	..	..	..	..	From 69s. to 79s.	..	..
(According to weight of van)									
(b) Country	..	..	..	..	..	..	From 74s. to 84s.	..	..
With allowances for meals, accommodation, etc.									
No overtime is payable to country drivers.									

General conditions:—

Working hours.—44-hour week.

Overtime.—Time and one-half.

Payment during illness.—Half pay for first month, guaranteed minimum.

Annual holidays.—One week with full pay.

The firms involved in the present dispute regret very much any inconvenience that may be caused to manufacturers by

reason of this stoppage. In present conditions the offer that has been made is the utmost to which they can go, and they feel that, after consideration of the facts as set out above, their position will be fully appreciated.

Belfast Pictures.—A portrait of Mr. Fred Storey, M.P.S.N.I. (chairman, Ulster Tourist Development Association) was included in a section on Belfast in the "Picture Post," February 28.

Supplies Short.—A correspondent writes: Chemists in Eire are finding difficulty in getting supplies of aluminium hot water bottles and vacuum flasks. Scarcity is stated to be due to difficulty in importing raw materials.

Chamber of Trade Appointment.—Mr. A. A. Brunner, M.P.S.I., has been elected president of the Dublin Chamber of Commerce for the current year. Mr. Brunner is the managing director of Boileau & Boyd, Ltd., wholesale chemists.

Business Change.—Miss K. M. Butler, M.P.S.I., has acquired from the executors the business of Lee's Pharmacy, Main Street, Wicklow, co. Wicklow. Miss Butler is a daughter of Mr. R. M. Butler (Butler's Pharmacy, Abbey Street, Wicklow) with whom she served her apprenticeship; she qualified in 1935 and has managed pharmacies in Tullamore and in Dublin. She will continue to trade under the title of Lee's Pharmacy.

Irish Drug Association.—Mr. P. F. McGrath (president) was in the chair at a committee meeting of the Irish Drug Association on February 19. The attention of members was drawn to orders and regulations made under the Dangerous Drugs Act, 1934; prescriptions or orders for dangerous drugs, it was pointed out, should not be supplied unless the signature of the doctor, dentist, or veterinary surgeon was familiar to the chemist. Doctors, dentists, or veterinary surgeons asking personally for these drugs should only be supplied if personally known. It was reported that the leakage of a certain approved line had been traced to a country town, and steps had been taken to prevent further leakage. Complaints against the inclusion of chemists' lines on cigarette gift schemes were discussed, and the secretary was instructed to communicate with the firms concerned. Replies received in connexion with developing and printing prices in the Dublin area showed a majority of over ninety per cent. in favour of standardising prices, but as the committee had not yet made

all the inquiries considered necessary, the matter was deferred to the next committee meeting.

Lecture on Colour Photography.—A lecture on "Some Aspects of Colour Photography" was given to the Eire Branch of the Photographic Dealers' Association by Mr. Lyall Smith, M.P.S.I., on February 22. There was a good attendance of assistants, but the number of dealers present was disappointing. Mr. G. A. McLean Lee, M.P.S.I. (president of the Branch) was in the chair. Mr. Smith traced the history of colour photography from Clerk Maxwell's theory, announced to the Royal Society in 1861, down to modern times. The work of Prof. John Jolly (Dublin University), Du Hauron, Lumière, Dufay, and the Agfa and Kodak processes were lucidly dealt with. The additive and subtractive methods were distinguished by means of lantern slides, and a special series of plates made by the Dufay (additive) process was screened. Mr. Smith showed results obtained in daylight and by half-watt lighting and flash lighting. A range of Kodachrome slides (subtractive) was then screened, followed by Kodachrome cine films taken in Connemara and in gardens around Dublin. Thanks were expressed to Mr. Smith by Mr. McLean Lee. Mr. Smith was booked to repeat his lecture in Sligo on March 7, and in Mullingar on March 8. On March 12 Mr. R. L. Hanna, M.P.S.I., will speak in Dublin on "Cine and the Chemist."

SCOTLAND

New Chemistry Department, Aberdeen University.—Dr. Harry Melville, whose appointment to the chair of chemistry in Aberdeen University was announced in last week's issue (p. 161), is to co-operate with Professor Findlay (retiring chemistry professor) in planning and equipping a new chemistry department, for which £50,000 has been granted.

Aberdeen Pharmacists' Social Club.—A new club, the Aberdeen Pharmacists' Social Club, has been founded in Aberdeen, with Mr. Eric Hunter as chairman, Mr. Henry Fraser as vice-chairman, and Mr. R. J. Cowie, 14 Bridge Street, as secretary. The club is open to pharmacists, their assistants and others connected with the profession. Its programme includes informal discussions, lectures, debates, and social functions.

TOPICAL REFLECTIONS

Medical Research

The latest annual report of the Medical Research Council (pp. 164, 169) is, like most of its predecessors, a valuable record of work covering, in a sense, every field of medical practice. This Council originated in the Medical Research Committee set up under the Commission that administered the first National Health Insurance Act; and it is characteristic of the haphazard and unsystematic way in which research has sometimes been used in this country that during the war of 1914-18 the investigations of that Committee overlapped with research undertaken on behalf of the Local Government Board, the Ministry of Munitions, the Colonial Office and certain other Government departments. Happily this confusion was ended by the Ministry of Health Act, 1919, which transferred the control of the Committee to the Privy Council. It was soon afterwards given its present title, and its reports have been summarised in your columns from year to year. The ever-increasing specialisation of medicine has rendered these excellent reports less readable of late years than they used to be: I suggest that an abridged version at a popular price would be an acceptable addition to the list of official publications, even though it might not rival the sensational sales of a recent blue book written by an eminent personage.

Infantile Enteritis

One item in the first column of your review on p. 164 is of particular interest to practising pharmacists—I refer to the remarks on enteritis as "the greatest cause of death among infants." As is well known, it was usual, not many years ago, for diarrhoea mixtures to make their appearance on pharmacy counters every summer side by side with salines and other seasonal goods. Since "about 1914," the report informs us, "there has been a great reduction in the incidence of summer diarrhoea and vomiting." It would be of interest if a more exact statistical record of this change could be extracted from

the annual reports of the Registrars-General for the different parts of the United Kingdom. It will be noticed that notwithstanding this reduction in the number of serious cases of enteritis among young children, "the residuum of deaths occurring at a constant rate throughout the year still presents a challenge to medical research." I suggest with due deference that in some cases the cause is to be sought in an article of the diet. A case came to my notice several years ago in which an infant had two serious attacks of the kind; on the second occasion the family doctor satisfied himself that the offender was honey. There must be many such cases of idiosyncrasy in respect of an apparently harmless food.

Design as a Sales Factor

Your remarks on design as an indispensable element in successful export trade (p. 170) are well timed. The problem of finding the best design for one's labels and containers is as subtle as it is important. Anyone who has access to newspapers dating back, say, fifty years can easily verify the fact that during the interval there has been a general improvement in methods of advertising goods, and especially in the typography and layout selected: this improvement is shared by labels, cartons and other containers. But this is not enough. One problem confronting salesmen—and not least those who are planning for export trade—is how to make the greatest appeal to the class or classes of people for whom the goods are intended. A style of packing regarded as the latest word in Regent Street may not have an equal "pull" in the Old Kent Road. This aspect of the matter is often bound up with the question of the degree of goodwill attaching to a recognised style of label and packing. Shall it ever be changed? If so, to what extent and for what classes of customer? These are fundamental and not altogether easy questions for manufacturers.

Xrayser

LEGAL REPORTS

Phenol Ointment.—At Stalybridge, Cheshire, on February 26, A. Simpson, M.P.S., Melbourne Street, was summoned for selling carbolic ointment alleged to be deficient in carbolic acid. Mr. Gregory prosecuted for the County Council and Mr. C. Henriques appeared for the defence. Following evidence of purchase and division of the sample, Mr. Gregory stated that the ointment was deficient in carbolic acid to the extent of 92 per cent., and was, he contended, practically valueless as an antiseptic. There was no standard fixed as to the quantity of carbolic acid there should be in the ointment. It was sufficient for the purpose, he stated, that the magistrates should fix their own standard on the evidence before them.

Mr. S. E. Mallings, Higher Broughton, Manchester, public analyst for the County Council, stated that on analysis he found that the amount of carbolic acid it contained was 0.24 per cent., balance 99.76 per cent. The British Pharmacopœia did not fix a standard content of carbolic acid or phenol for the ointment, but prescribed 3 per cent. as a maximum, and as an expert his opinion was that as it contained less than one-tenth of 3 per cent. of phenol it was of little use as an antiseptic. Mr. Gregory: on your opinion, was it carbolic ointment?—No, not in the sense. If the British Pharmacopœia, which is my standard.

Mr. Henriques: You say the British Pharmacopœia is your standard?—Yes. And you say this is deficient in carbolic acid to the extent of 92 per cent?—Yes. You say according to the British Pharmacopœia it should contain 3 per cent. of carbolic acid?—Yes. You know that phenol is a volatile substance, and it evaporates?—Yes. Answering further questions, witness said it might evaporate 28 per cent. in two years unless kept in an airtight container. He did not know of any specific directions given in the British Pharmacopœia as to keeping carbolic ointment. The porcelain jar in which Mr. Simpson kept the ointment was produced in court and Mr. Mallings said that carbolic ointment kept in that jar might lose 25 per cent. by evaporation in two years.

The magistrates' clerk (Mr. R. G. Cooke): The magistrates are concerned with what a man demanding carbolic ointment would expect to get. It is for you, Mr. Gregory, to suggest a standard. The standard that you suggested is 3 per cent.; are you prepared to change that or is your contention that the basis of carbolic ointment is 3 per cent.? Mr. Gregory: It should contain 3 per cent. phenol and when served to the public there should not be more loss than is necessary in the course of compounding the ointment. The magistrates' clerk: Well, you appreciate now that kept in a place like this is kept it automatically loses something, even in the first few weeks; suppose it is kept for three months? Mr. Mallings: There will be more loss. The magistrates' clerk: There is no law to say that it should be kept in airtight containers. In reply to Mr. Gregory, Mr. Mallings said he had never met anything like a deficiency of 90 per cent. in phenol ointment. The magistrates' clerk: What are people buying when they buy carbolic ointment?—Well, in the absence of a standard, I am afraid there will be a difficulty in saying.

For the defence Mr. Henriques said that before the magistrates could fix a standard there must be evidence before the Court from which they could assume a standard recognised in the trade. Mr. Mumford, M.D., F.R.C.P., bacteriologist at Manchester Royal Infirmary, said carbolic ointment was not ordered by any of the medical practitioners at Manchester Royal Infirmary, and the medical profession were not in the habit of prescribing it. It was purchased by the public because of its smell, and they thought it would do some good. For medicinal purposes 0.24 per cent. of carbolic acid or phenol in carbolic ointment would be as effective as 3 per cent.—i.e. he added, completely ineffective. Continuing, the doctor said that 3 per cent. might be dangerous if used on an open cut or abrasion. The only form he prescribed it for therapeutic purposes was in a solution, and he used 1 per cent. carbolic lotion.

Mr. Gregory: I think I am correct in saying that the British Pharmacopœia is generally recognised as the chemists' bible. Dr. Mumford: Yes, but there are unnecessary passages in the Bible, I think. Do you tell their worshipers that phenol ointment is a worthless ointment?—I do. As an ointment it is not antiseptic?—As a medical man I can say that it is a very wrong procedure to give 3 per cent. carbolic. He added that phenol ointment was not prescribed and was of no real value. Carbolic

acid was originally regarded as the chief antiseptic of value in medicines, but doctors had to risk the bad effects of it. Now they had come to a time when they did not need carbolic acid at all as an antiseptic, as there were other and safer preparations.

Mr. Simpson, in evidence, said he got the ointment from a leading manufacturer and he kept the jar on a shelf in his shop. There was very little demand for it. He only bought 1 lb. and had had it three or four years. He had not sold more than two ounces a year. There was no standard as to how much phenol there should be in this ointment. Mr. Thomas Tickle, F.I.C. Ph.C., public analyst for Devon and Exeter, said the sample Mr. Simpson sent contained 0.36 per cent. of phenol. There was no acknowledged standard. Mr. Gregory: Referring to the sample could you report this article as genuine?—Yes, knowing what I do of it. The magistrates decided that the case for the prosecution was not proved.

A Wrong Label.—At Bishop Auckland on February 29, a fine of £10 inclusive was imposed on Brook, Parker & Co., Ltd. wholesale chemists, Bradford, who pleaded guilty to selling a bottle of carbolic acid not of the standard described. The case was sequel to a court hearing on February 5 (*C. & D.*, February 10, p. 100), when the magistrates decided that there was no case to answer in relation to a charge of selling carbolic acid not of the quality demanded by the purchaser, preferred against William O. Gelley, West Auckland. Mr. H. L. Underwood representing the Durham County Council, who prosecuted, stated that a bottle of carbolic acid was bought at Mr. Gelley's shop by a weights and measures inspector. When analysed it was found to be deficient of phenols. It was stated on the label that the substance contained 90 per cent. of phenols, but the analysis showed that it contained only 14 per cent. of phenols. Mr. Gelley gave evidence of the purchase from Brook, Parker & Co., Ltd., and in cross-examination by Mr. Brown-Humes, for the defence, stated that the company was well known. It had been established, as far as he knew, for about sixty years and had an excellent reputation. He had bought a great deal from them and had not previously had a complaint. Mr. Brown-Humes said that the label on the bottle which was the subject of complaint was one of some printed for an entirely different preparation some years ago. The labels were for a preparation which he understood contained 98 per cent. of phenols. The company's chemist had passed the label as correct for the carbolic acid preparation. Every drop of the preparation had been withdrawn from stock and from what was on order and the labels destroyed. An unfortunate mistake had been made for which Messrs. Brook, Parker & Co., Ltd., were exceedingly sorry.

PARLIAMENTARY NEWS

No Power to Decrease Shop Hours.—The Home Secretary (Sir John Anderson) replied to Mr. Leslie on February 29 that he had received no communication from a mass meeting of shop workers at Hammersmith on February 25, and that as it was outside the powers of the Defence Act to continue an Order when the emergency conditions on which it was based were no longer operative, there was no action he could properly take in the matter.

Obstructions Outside Shops.—In reply to a question by Mr. Parker, on February 29, as to whether he was aware that obstructions on the forecourts of shop premises, such as cigarette and sweet machines, constituted a great danger during the blackout; and whether he would consider taking suitable steps to compel their removal from public footways, the Home Secretary (Sir J. Anderson), replied, I have not received any representation which would suggest that these machines constitute a dangerous obstruction.

Export Trade Insurance.—In reply to a question by Colonel Ponsonby, on March 4, the Secretary to the Overseas Trade Department (Mr. R. S. Hudson) stated that matters such as the 75 per cent. cover afforded by the Department in respect of transfer risk, are constantly under consideration, but that the policy of the Department is to require traders to carry some proportion of the risk involved. The Department's transfer guarantee covers buyer's inability to transfer payments into sterling whether the transfer is prevented by war conditions or otherwise.

SCIENTIFIC PAPERS AT EDINBURGH

(Concluded from the C. & D., March 2, p. 163)

TER the discussion on Dr. Mitchell's paper at the Evening
eting of the North British Branch of the Pharmaceutical
ociety the next communication was by Mr. D. B. Dott, on

"THE TESTS FOR TANNIC ACID"

It was reported to me that samples of tannic acid which had
ssed the B.P. tests had been found unsatisfactory in hospital
actice. When a 5 per cent. solution in methylated collodion
s prepared, in one instance the product was turbid, and in
other the yellow-brown colour speedily changed to green.
gm. of each of four samples *A*, *B*, *C* and *D* was dissolved in
mils collodion. *A* gave a turbid solution, *B* a nearly clear
ution that slowly threw down a slight deposit; *C* a clear
aw-coloured solution that did not deposit; and *D* a clear
ution of the usual brownish tint, which changed to green.
sed the whole of the small sample *D* but failed to discover the
use of the coloration. There was no evidence of metallic con-
nination. Tannic acid is soluble in acetone, a syrupy 1 in 2
ution being readily formed. 0.5 gm. of each sample was dis-
olved in 10 mls of acetone in a $\frac{1}{2}$ -oz. phial. *A* showed consi-
derable insoluble matter, *B* dissolved to a nearly clear solution,
gradually deposited a small amount of brown sediment, and
dissolved to a clear, nearly colourless, solution without deposit
er twenty-four hours.

Dr. Tait, who read the paper in the absence of Mr. Dott, said
t the author felt additional B.P. tests were required.

The third communication, by Mr. William Brown and Professor
nes P. Todd, was

"A NOTE ON SOME WEIGHINGS WITH A DISPENSING BALANCE"

It is generally agreed that weighings of small quantities of
ent medicaments should be carried out on a finer type of
ensing balance than that used for routine operations. How
this is necessary depends on the type and condition of the
ensing balance used. The authors carried out a series of
ghings of potassium iodide from 1 gr. up to 2 dr., checking
weights by means of a high-grade analytical balance and
-grade metric weights. It is not claimed that the practising
rmacist would attempt to work to such a high degree of
uracy but the aim was to achieve the maximum efficiency
sible for the balance used. In the first series of weighings a
mium-plated balance of conventional pattern was used, with
s scale-pan and vertical pointer projecting upwards, but with
scale attached. For the second series a balance of stream-
d finish, its beam and pointer enclosed in a white-enamelled
network giving protection against dust and corrosion of the
e edges, was chosen. This proved very sensitive and was
sen in preference to the glass-case-enclosed type.

One grain of potassium iodide, weighed against a stamped
n weight and then on an analytical balance showed an excess
ounting to 14 per cent. or about $\frac{1}{4}$ -gr. on an average in ten
ghings. If sufficient potassium iodide was added to deflect
pointer the excess amounted to 44 per cent., or between
nd $\frac{1}{2}$ gr. The balance was then taken to pieces, carefully
ned, and the knife edges polished, when its performance
roved. One grain then showed an excess of $8\frac{1}{2}$ per cent. or
gr., and when an excess of potassium iodide was added as
ore, an excess of 30 per cent., or less than $\frac{1}{4}$ -gr., was noted.
weighings with a balance of the type enclosed in a glass case,
excess on 1 gr. was less than 0.1 per cent. and, with a deflec-
equalling two scale divisions, the excess was nearer 0.2
cent. than 0.1 per cent. The stream-lined balance as received
ved an average weight for 1 gr. on the right-hand pan of
0.872 gm. and in the left-hand pan of 0.05941 gm., indicating
quality of the beam. After careful adjustment the weighings
both pans became approximately equal, and the figure finally
ained as a result of ten weighings on the right-hand pan
aged 0.06440 gm. The analytical balance estimate of the
n weight used was 0.06535 gm., a difference of about 1 mgm.
1/2 gr., and about $1\frac{1}{2}$ per cent. less than 1 gr. A scruple weight
counterpoised with the iodide, then another grain weight
added, and sufficient iodide to restore equilibrium. The
n of a dozen weighings obtained for a grain in this way was
0.570 gm., which rivalled the analytical balance itself in
uracy. A feature of the balances used was that they gave a
tively better reading when well loaded than when light.

Incidentally a scruple weight, weighing 1.29791 gm. on the
analytical balance, when counterpoised on the stream-lined
balance with potassium iodide and the latter weighed on the
analytical balance, showed the remarkable average of 1.29799 gm.

A proved two-drachm weight, counterpoised with potassium
iodide and weighed, gave the following average weights:—

	Equilibrium	Deflection	Analytical Balance
First balance, chromium plated	7.8057	7.8223	7.78253
The same balance, cleaned and adjusted	7.7935	7.8163	
Second balance (stream- lined)	7.7825		

A series of weighings was then carried out to determine the
possibility of subdividing a weighed quantity into twelve
powders, each containing its due proportion of medicament.
Two drachms of potassium iodide, in equilibrium on the stream-
lined dispensing balance, weighed 7.76379 gm. on the analytical.
Each powder should weigh 0.64865 gm. when weighed against a
10-gr. weight.

First powder ..	0.64994	Seventh powder ..	0.64997
Second powder ..	0.65055	Eighth powder ..	0.65036
Third powder ..	0.64999	Ninth powder ..	0.65046
Fourth powder ..	0.64913	Tenth powder ..	0.65075
Fifth powder ..	0.65969	Eleventh powder ..	0.65954
Sixth powder ..	0.64922	Twelfth powder ..	0.63073

The total weight, by addition, is 7.80033 gm. The mean weight
of the first eleven powders is 0.65100 gm., which makes each
powder about 2 mgm. heavy, and the last 2 mgm. light. If we
had weighed sufficient material for thirteen powders we would
actually have in the twelve powders an excess of about half a
grain. The point is rather academic but the usual method of
weighing the quantities for twelve powders does in fact result
in the patient getting the correct amount of medicament and is
within limits practical.

The figures show that in everyday practice there is justification
for carrying out weighings in the region of 1 gr. on a balance of
sensitive type specially protected and used only for accurate
work. They give some idea of the minimum error which may
creep into a weighing unless this is done. The necessity for
speedy weighing and ability to withstand hard usage makes it
unwise for makers to attempt to combine both functions in the
same instrument, although, as has been shown, something
approaching an all-purpose balance is to be found in one of the
balances tested (the stream-lined). It is also shown that in a
series of a dozen weighings the loss in the last powder may vary
from $\frac{1}{2}$ gr. or more, according to the balance, but that it is
preferable in the interest of accuracy to adopt this method rather
than to make for a larger number of powders. Finally attention
of apprentice masters is drawn to the possibility of accurate
work in volumetric analysis for the apprentice who is penalised
or imagines he is by the lack of a chemical balance. With the
purchase of a few chemicals of analytical reagent purity and
some volumetric glassware, work of sufficient accuracy can
be done, provided a fine dispensing balance is available.

Discussion

MR. DRUMMOND said he was interested to learn that a greater
degree of accuracy had been observed when there was a load on
either scale-pan. The discrepancy of $\frac{1}{4}$ gr. on the ordinary
dispensing balance was safely within the limit allowed by the
authorities which was, he believed, $\frac{1}{2}$ gr. DR. MITCHELL said
that his experience of potassium iodide was that it was slightly
hygroscopic; he wondered if Professor Todd's experiments did
not bear this out. MR. WILSON asked what Professor Todd
considered the minimum quantity that could be accurately
weighed on a balance—one gr. or less?

PROFESSOR TODD said that he had had no experience of
potassium iodide being hygroscopic. He had seen samples
which had turned moist and yellow, but they were invariably
poor samples. In his opinion, with a fine balance, $\frac{1}{2}$ gr. could be
weighed with the greatest accuracy, though 1 gr. of a potent
substance should not be weighed on an ordinary balance.

The CHAIRMAN moved a vote of thanks.

COMPANY NEWS

P.C. means Private Company and R.O. Registered Office

C. T. COOPER (BOGNOR REGIS), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists, druggists, dispensers, opticians, etc. The first directors are not named. R.O.: 42 Sudley Road, Bognor Regis.

E. YOUNG & CO. (CHEMISTS), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists, druggists, etc. G. A. Coward, 7 Dartmouth Park Road, London, N.W.5, secretary. The first directors are not named.

TOMEL, LTD. (P.C.).—Capital £400. Objects: To carry on the business of manufacturers of and dealers in drugs, oils, medicines, chemicals, etc. The first directors are to be appointed. R.O.: Room 376, Bank Chambers, 329 High Holborn, London, W.C.1.

DAVID FOULIS, LTD. (P.C.).—Capital £100. Objects: To carry on business as wholesale and retail chemists and druggists, etc. David Foulis, M.P.S., and Ellen L. Foulis, 166 High Street, Waltham Cross, directors. R.O.: 111 High Street, Waltham Cross, Herts.

FOOD PROPRIETARIES (MIDLANDS), LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers of and dealers in food products, chemicals, essences, medicines, etc. Solicitor: Henry Clayton, 23 Colmore Row, Birmingham. The first directors are not named.

ANGLO CHEMICAL & ORE CO., LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of dealers in metals, ores, coal tar by-products, chemicals, fertilisers, etc. Adolf A. Horner, director. Solicitors: Buckeridge & Braune, 3-4 Clements Inn, London, W.C.2.

PRICE'S CELLULOSE PRODUCTS, LTD. (P.C.).—Capital £10,000. Objects: To acquire any patents, licences and concessions. Power is taken to manufacture food for cattle. Herbert T. Price and William Quilter, directors. R.O.: Westralia House, 66 Gresham Street, London, E.C.

VITAMIN CAPSULES, LTD. (P.C.).—Capital £5,000. Objects: To carry on the business of manufacturers of and dealers in vitamins of every description and all kinds of products containing or for the purpose of containing vitamins or vitamin properties; chemists, druggists, etc. The first directors are to be appointed. Solicitors: Slaughter & May, 18 Austin Friars, London, E.C. No R.O. given.

M. E. GREATREX, LTD. (P.C.).—Capital £500. Objects: To carry on the business of consulting, analytical, manufacturing, pharmaceutical and general chemists, drug merchants, opticians, etc. Margaret E. Great Rex, 24 Church Road, Ton Pentre, Glam., and Bernard J. Great Rex, M.P.S., 10 St. David Street, Ton Pentre, directors. R.O.: 24 Church Road, Ton Pentre, Rhondda, Glamorganshire.

BARONS CHEMISTS (BOLTON), LTD. (P.C.).—Capital £500. Objects: To carry on the business of manufacturers of and dealers in chemicals, drugs, oils, medicines, and ointments, toilet requisites and preparations; wholesale and retail chemists and druggists, etc. John W. Baron, M.P.S., and Mrs. Ethel Baron, 37 Gregory Avenue, Bolton, directors. R.O.: Knowsley House, Knowsley Street, Bolton.

WAREING BROTHERS & CO., LTD. (P.C.).—Capital £25,000. Objects: To acquire the business of paint manufacturers and dealers in oils carried on by G. R. Wareing, A. E. Wareing, H. Wareing, and Edith L. Harrop at Carlton Street, Bolton, as "Wareing Brothers & Co.," and to carry on the business of manufacturers of and dealers in colours, cellulose products, solvents, shellacs, gums, etc. Alfred E. Wareing, 18 Albert Road, Bolton, and George R. Wareing, Greenacres Cottage, Towncroft Lane, Bolton, directors.

SOUTHALLS (BIRMINGHAM), LTD.—The annual meeting on February 5 was followed by an extraordinary general meeting, at which the resolutions relating to increase of capital and issue of bonus shares (see *C. & D.*, February 17, p. 116) were carried.

Bankruptcy Report.—RE THOMAS HENRY HAMNETT, lately of 63 Market Place, Lyttleton Road, Hampstead Garden Suburb, chemist and druggist. This debtor again attended at the London Bankruptcy Court recently for public examination. In reply to Mr. Cadwgas, Assistant Official Receiver, he stated that he had lodged a cash account as ordered by the Court. He had also amended the statement of his affairs by including a few liabilities previously omitted. The ranking debts now amounted to £1,141 and the deficiency was established at £1,057. The examination was concluded.

TRADE NOTES

THE price of Karrer's "Organic Chemistry," a review of which was published in the *C. & D.*, March 2, p. 162, is now 55s. and not as stated.

NEW TRIAL SIZE.—Coty (England), Ltd., Coty House, 3 Stratford Place, London, W.1, have introduced a new trial size of their tissue skin food. An illustration of a counter display box is included in the company's advertisement elsewhere in this issue, together with other details.

DRENE BEAUTY GUIDE.—Thomas Hedley & Co., Ltd., Newcastle-on-Tyne, have published a "Drene Glamour Book," an attractive brochure, profusely illustrated in colour, which has been edited by a well-known beauty expert and novelist. In addition to notes on the use of Drene shampoo, the booklet contains advice on simple ways to beauty and hints on diet and exercise.

LEICESTER SCHOOL OF PHARMACY.—A 32-page illustrated brochure describing the school of pharmacy of the Leicester College of Technology and Commerce is offered to any person interested. The booklet contains notes on pharmacy as a career, entry into pharmacy, the departments and laboratories of the school, Leicester apprenticeship scheme, and details of the courses and scholarships available.

GALLENKAMP'S CATALOGUE.—We have received a copy of the eleventh edition of the catalogue of laboratory apparatus and equipment issued recently by A. Gallenkamp & Co., Ltd., 17-29 Sun Street, London, E.C.2. Handsomely bound in a green cover printed in gold, the catalogue contains in 1,903 pages descriptions and illustrations of an extensive range of laboratory and hospital equipment, scientific instruments, semi-scale chemical plant, industrial testing apparatus, etc.

SELF-ADHESIVE BANDAGE.—Stanning Proprietaries, Standbrook House, 2-5 Old Bond Street, London, W.1, have sent us a specimen of their Stanlast self-adhesive bandage, which adheres only to itself and does not stick to skin or hair. The advantages of such a bandage are obvious. Being elastic, Stanlast bandages permit full freedom of movement while providing adequate support, and their porosity allows circulation of air. The bandage can be washed and sterilised and used again and again whilst retaining its original adhesiveness. Stanlast is supplied in rolls of five yards stretched, in five widths: 1 in., 1½ in., 2 in., 2½ in. and 3 in. A sample will be sent to any chemist who writes for one.

SOLDIERS' COMFORTS FUND.—The Brylcreem Sports & Social Club (County Perfumery Co., Ltd., London, N.W.10) has organised a scheme for sending garments knitted by employees in the offices and works to the Lord Mayor's Soldiers' Comforts Fund through the Women's Voluntary Services for Civil Defence, Wembley. A committee addressed letters to all the company's employees serving in the Forces either at home or on active service to inquire if they required any knitted comforts. Up to date the number of finished garments received and dispatched either to the Comforts Fund or in response to employees' requests is as follows: Mittens 25 pairs, helmets 28, scarves 12, pullover 1, socks 1 pair. In addition to the above a weekly collection is made which provides funds to send parcels to *personnel* on active service.

Proprietary Articles Trade Association

Alterations to Protected List.—Keen, Robinson & Co., Ltd., Almata (Keen's complete food), prices in Eire from March 15, 3s., 27s. doz., less 2½ per cent. for cash by fourteenth of month after purchase (= 26s. 4d. doz. net). *Toinoco Handkerchief Co., Ltd.* When present stocks are exhausted, Toinoco Softanx fabric tissues in cartons of fifty, at present priced at 2s., will be discontinued.

Business Changes

MR. JOHN ROLAND, M.P.S., has purchased the branch business of S. Press (Chemists), Ltd., 118 North Street, Romford.

DUBERLY & WHITE, LTD., chemists and opticians, Luton, are shortly transferring their optical department from 21 Cheapside, Luton, to larger premises at 27 Cheapside. The department will continue under the management of Mr. F. E. Field.

BRUSH ELECTRICAL ENGINEERING CO., LTD., have opened new offices at Daimler House, Wilmslow Road, Rusholme, Manchester 14 (Telephone: Rusholme 2205/7). The offices at Haworth Buildings, Cross Street, Manchester, have been vacated.

PERSONALITIES

MR. C. J. H. HUBBARD, M.P.S., Whitchurch, Shropshire, has been elected president-elect of the local chamber of trade.

MR. W. ANDERSON, M.P.S., Barrowford, Lancs, has been appointed treasurer of the local Nursing Association.

MR. JOHN WILLIAM AILSBY, M.P.S., 8 High Street, Whittlesey, Cambs, is one of six new justices of the peace for the Isle of Ely. Mr. Ailsby, director of J. W. Ailsby, Ltd., March and Whittlesey, is acting-secretary of the Isle of Ely Pharmaceutical Committee.

At a meeting of the Royal Society of Edinburgh, on March 4, Mr. John Cameron, Ph.C., F.R.G.S., and Mr. James Coutts, Ph.D., Ph.C., were elected Fellows. Mr. Cameron has been for twenty years head of the pharmaceutical department of the Peiping (formerly Peking) Union Medical College and is the author of four text-books in Chinese for medical students. He is at present on his way home to this country, stopping for a time *en route* at the Squibb Institute for Medical Research, New Brunswick, New Jersey, U.S.A. Mr. Cameron was recently elected an honorary member of the American Pharmaceutical Association, Washington, D.C. Dr. Coutts is lecturer in pharmaceuticals and demonstrator in practical pharmacy, St. Bartholomew's Hospital Medical College, and pharmacist to St. Bartholomew's Hospital, London, E.C.1.

TRADE-MARK APPLICATIONS

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary and Year-Book," 1940, p. 275.

(From "The Trade Marks Journal," February 14, 1940)

SCHEDULE IV

"MIASMINE"; for vaccine (5). Ambex Ltd., 13 Sackville Street, London, W.1. 610,209.

"KARSODRINE"; for inhalers (10). E. Griffith Hughes, Ltd., Peru Street, Adelphi, Salford, Manchester. 610,062 (Associated).

APPLICATION AMENDMENTS

According to "The Trade Marks Journal" of February 14, 1940, specification 604,794 by Vandré Limited, 189 Pitt Street, Glasgow, has been amended to "soaps, perfumery, essential oils, cosmetics, hair lotions, dentifrices."

According to "The Trade Marks Journal" of February 14, 1940, specification 607,947 by Midgley & Parkinson, Ltd., Warren Works, Swinnow Lane, Pudsey, Leeds, has been amended to "medicinal and pharmaceutical preparations containing yeast; veterinary and sanitary preparations and substances; infants' and invalids' foods."

(From the "Trade Marks Journal," February 21, 1940.)

SCHEDULE IV

"PHENOVIS"; for industrial chemicals (1). By British Dyestuffs Corporation, Ltd., Wexham Road, Slough Bucks. 609,647.

"OSIRA"; for industrial luminescent chemicals (1). By The General Electric Co., Ltd., Magnet House, Kingsway, London, W.C.2. 609,708 (Associated).

"VENTROT"; for chemicals for waterproofing textiles (1). By British Bitumen Emulsions, Ltd., Dundee Road, Trading Estate, Slough, Bucks. 609,861.

"SALOSEP"; for perfumery, etc. (3). By The New Era Treatment Co., Ltd., Cecil House, Holborn Viaduct, London, E.C.1. 609,664.

"DABIL—D" (letter "D" disclaimed) for medicinal preparation for treatment of piles (5). By Vandré, Ltd., 189 Pitt Street, Glasgow, C.2. 607,355.

"TANNAGEL"; for colloidal preparations for treatment of burns (5). By C. A. Critchley & Co., Ltd., 15-19 Cardwell Place, Blackburn. B609,275.

"OPTABS"; for pharmaceutical tablet products (5). By G. W. Taylor, 17 Blenheim Terrace, Woodhouse Lane, Leeds. 609,725.

"BECTAX"; for all goods (5). By Bayer Products, Ltd., 31-34 Basinghall Street, London, E.C.2. 609,892.

"ZIEF"; for medicinal preparations; pharmaceutical, veterinary and sanitary preparations; infants' and invalids' foods (5). By P. A. Nicholls, 171 Clifford's Inn, Fleet Street, London, E.C.4. 610,076.

APPLICATION AMENDMENT

According to "The Trade Marks Journal" of February 21, 1940, specification No. 604,943 by Boots Pure Drug Co., Ltd., has been amended to "Medicated preparations (for administration orally) for the relief of indigestion."

(From "The Trade Marks Journal," February 28, 1940)

SCHEDULE IV

"LE NOIR BAISER"; for cosmetics (3). Paul Baudecroux, 14 Rue du Faubourg Saint Honoré, Paris, France. B608,997 (Associated).

"NIMROB"; for perfumery and dentifrices, etc. (3). By Alexander Finlay, Ltd., Victoria Square, Belfast, N. Ireland. 610,222 (Associated).

"POURQUOI PAS"; for perfumes, etc. (3). By J. & E. Atkinson, Ltd., 24 Old Bond Street, London, W.1. 610,274.

"JUNE"; for perfumery, dentifrices, etc. (3). By Saville Perfumery, Ltd., 124 Rickmansworth Road, Watford, Herts. 609,977 (Associated).

"CANTAXAN"; for all goods (5). By Bayer Products, Ltd., 31-34 Basinghall Street, London, E.C.2. 609,893 (Associated).

"POLYTAXAN"; for all goods (5). By Bayer Products, Ltd., 31-34 Basinghall Street, London, E.C.2. 609,899 (Associated).

BIRTHS

Notices for insertion in this column must be properly authenticated

GARDINER.—At Vert Hospital, Haddington, on February 28, Moira, wife of Harvey M. Gardiner, M.P.S., Briery Bank, Haddington, of a daughter.

MARRIAGES

JACKSON—BRIERS.—Recently, Ralph H. Jackson to Jean Seward Briers, M.P.S., Denewood, Heapey, nr. Chorley.

NEVILLE—GLEDHILL.—At the English Methodist Church, Old Colwyn, on February 28, Harold Neville, M.P.S., to Anne Gledhill.

PHILLIPS—REES.—At St. John's Church, Colwyn Bay, recently, Gwilym Lloyd Phillips, M.P.S., to May Rees.

WILKES—HILARY.—At Chandler's Ford, Hants, Congregational Church, recently, H. Wilkes, M.P.S., to S. I. Hilary.

DEATHS

BOYES.—At Leigh-on-Sea, on March 1, Mr. Alexander (Sandy) Boyes. For many years Mr. Boyes represented Evans Sons Lescher & Webb, Ltd., in the London area. He retired about seven years ago.

CUNNINGHAM.—At 22 Balmoral Drive, Cambuslang (the residence of his son-in-law, Mr. J. B. H. Smith, M.P.S.), on March 4, Mr. John James Cunningham, chemist and druggist, aged eighty.

FROST.—Recently, Mrs. Mona Crellin Frost, M.P.S., 48 Michael Street, Peel, Isle of Man. Mrs. Frost passed the Qualifying examination in 1923.

HICKS.—Recently, Mr. Frederick Joel Hicks, M.P.S., 3 St. Mary Abbot's Terrace, Kensington, London, W.14. Mr. Hicks passed the Minor examination in 1895.

HURN.—On February 23, Mr. Albert Joseph Hurn, chemist and druggist, Albert Square, London, S.E., aged seventy-seven. Mr. Hurn was for some time assistant pharmacist at Guy's Hospital, and was also at the Evelina Hospital.

JEWSON.—Recently, Mr. John Robert Jewson, Ph.C., Wraybury, Staines. Mr. Jewson qualified in 1900 and passed the Major in the following year.

RENDALL.—On February 24, Mr. Donald Kent Rendall, M.P.S., Humber Avenue, Coventry, aged thirty-six.

ROBERTS.—Suddenly, on February 25, Mr. Herbert Roberts, Ph.C., Belfast. Mr. Roberts qualified in 1930 and was associated with his father, Mr. E. J. Roberts, Ph.C., in the pharmacy at 250 Shankill Road, Belfast. He leaves a widow and two children.

SUTCLIFFE.—At Buxton, recently, Mr. Isaac Sutcliffe, chemist and druggist, aged eighty-three. Mr. Sutcliffe was in business at Mossley, Manchester, for many years.

SWEET.—On February 28, Mr. William Copeland Sweet, director of W. & R. Hatrick, Ltd., manufacturing chemists, Glasgow, aged fifty-two. Mr. Sweet entered the service of Messrs. Hatrick in 1900 and after experience in various departments, became a member of the firm's representative staff, and later a director.

TURNER.—On February 26, Mr. Harold Strange Turner, M.P.S. St. Ives, aged seventy-four. Mr. Turner had been in business locally for over half a century and on more than one occasion had been mayor of the borough.

TURNER.—At his home, 8 Thornhill Road, Mannemead, Plymouth, on February 23, Mr. Frederick Edmund Turney, aged seventy. Mr. Turney was one of four brothers, all of whom at some time took part in the business in Union Street, conducted by their father, the late Mr. S. B. Turney. After having been in business for some years at Bodmin, Mr. F. E. Turney returned nearly thirty years ago to Plymouth, to join his brother, Mr. J. D. Turney, in the management of the Union Street shop, which after their father's death they carried on jointly, until Mr. F. E. Turney's retirement some ten years ago.

WILLANS.—At Brompton, recently, Mr. Fred Willans, aged eighty-three. Mr. Willans, who retired from business in 1920, was formerly connected with several well-known pharmaceutical businesses in the Newcastle-on-Tyne area.



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Pharmacists will find it a useful guide in the course of their business. Customers interested in the purchase of air raid precautions goods will appreciate a copy for their own use.

Chemical manufacturers and firms engaged in all branches of the drug trade will find the chart of practical use in connexion with arrangements they make for air raid precautions, and it is suggested that copies of the chart should be distributed to their staffs. Reprints are available at the following prices, postage included:—

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INFORMATION DEPARTMENT

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

W/26 Chlorophene
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T/27 Solarium (or Salarium)
substitute for table salt

COMING EVENTS

This section is reserved for advance notices of meetings or other events. These should be received by the Editor at Bath by Wednesday morning of the week before the meetings, etc., occur.

Tuesday, March 12

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Evening Meeting. Dr. W. P. Kennedy (a member of the Poisons Board and formerly Professor of Physiology in the University at Baghdad) on "Some Aspects of Drug Addiction."

Wednesday, March 13

Manchester Pharmaceutical Association and Branch, Victoria Hotel, Deansgate, Manchester, at 3 p.m. Mr. W. Deacon (president, Pharmaceutical Society) on "Pharmacy—The Present and the Future."

Thursday, March 14

Western (London) Pharmacists' Association and Branch, Quadrant Restaurant, 74 Regent Street, W.1, 7 p.m. to 11 p.m. Reunion dance. Tickets 6s. 6d. from any member of committee or the social secretary.

THE CHEMIST AND DRUGGIST

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Local Expenditure and Assessments

WHILE the Chancellor of the Exchequer is engaged on the unenviable task of drawing up his estimates of expenditure for the forthcoming financial year and deciding on ways and means to be adopted for collecting the necessary revenue, local authorities in many parts of the country are beset with such abnormal financial difficulties that their plight is to be considered by Parliament this week. Briefly their position may be summarised as follows: (1) Expenditure for 1939-40 has in many instances exceeded the estimate for that period; (2) estimates for 1940-41 expenditure are likely to show a further increase; (3) in many districts, particularly evacuated areas, the rateable value has declined substantially; and (4) shopkeepers in evacuated areas are asking for the reassessment of their premises on the basis of the much smaller volume of business now being done. The excess local government expenditure during the current financial year is, it is stated, chiefly due to the cost of civil defence. In some localities this has been substantially cancelled by the saving on street lighting, but this has been done chiefly by financing the cost of erection of public air-raid shelters and other capital works by borrowing. The Government, of course, has already agreed to meet the major part of the cost of A.R.P. Even so, the balance is in many instances an intolerable burden on the hard-pressed ratepayer. We have little sympathy with those local authorities who, it is reported, state it is not possible to make any tangible reductions in their expenditure on normal services for the forthcoming year. During the past ten to fifteen years, social services, particularly in the larger municipalities, have progressed to such an extent in all directions that many districts are now saddled with huge debts carrying interest charges, commitments of various kinds and heavy maintenance charges. In these times it would not be a retrograde step to suggest that a good deal of this "spoon-feeding" must be stopped—at least for the duration of the war. Local authorities will have a much stronger case to support their appeal to the Government for assistance if they can show they have made some sacrifices. The main difficulty of local authorities, however, is the serious shrinkage of revenue due to empty premises. In some vulnerable areas of the country, the loss is said to amount to as much as 15 per cent. of the

rateable value, and this decline in income is aggravated by a marked increase in the number of rate defaulters. Tenants and owners of dwelling houses in these areas can have little hope of any relief. They will have to meet whatever further demands that may be made on them. Shopkeepers, however, certainly appear to have a sound case for claiming the reassessment of their business premises on the basis of reduced volume of trade. The method of calculating the rateable value of ordinary retail business premises is chiefly on their position and business value. If that business value has declined, as is definitely the case in all evacuated areas, then the ratepayer concerned is entitled to an appropriate reduction in his assessment. Industry and farming have been afforded relief by way of derating. The questions of reductions in rentals and the modification of mortgage charges on the hardly-hit shopkeeper would appear to be matters for negotiation between the parties concerned. While the Government may decide that the circumstances call for granting some financial assistance to municipalities of evacuated areas, it is rather more likely they will insist on drastic cuts being made in expenditure, and these economies might well include the curtailment of unprofitable and competitive trading activities and the sale of goods at uneconomic prices. Shopkeepers, particularly those where the population has been severely depleted, have every right to the immediate readjustment of assessment of their premises in the light of current conditions. Whatever the form of relief the Government may decide to give to local authorities and to individual ratepayers, the main solution of the difficulties will, we suggest, be found in the drastic reduction of municipal expenditure.

An Unsatisfactory Ointment

A SUMMONS under the Food and Drugs Act, 1938, recently brought against a chemist (p. 180), failed owing to there being no standard as to the proportion of carbolic acid there should be in phenol ointment, B.P., and inability of the prosecution to induce the magistrates to fix their own standard on the evidence before them. According to a medical witness doctors are not in the habit of prescribing phenol ointment, which is purchased by the public because of its smell, and because they think it will do some good. If these facts are correct, there seems no reason why phenol ointment should be included in the British Pharmacopœia, but, so long as it is, chemists should be on their guard. If the ointment is retained in the next Pharmacopœia directions should be given regarding the characters, tests, and conditions of storage, together with an indication of the maximum amount of phenol that may be lost in the course of manufacture. Supplying an ointment that has been in stock for any length of time, or a preparation that has not been kept in closely-sealed containers, should be avoided.

It will be recalled that the keeping properties of this ointment were the subject of a valuable communication to the British Pharmaceutical Conference, 1938. The author showed that, when stored in pots with loosely fitting earthenware covers, the preparation lost phenol rapidly and the strength might diminish by as much as 11.2 per cent. in ten months and 28.2 per cent. in twenty-five months. A sample of ointment stored at room temperature in a two-oz. pot covered with grease-proof paper lost 28 per cent. of phenol from the top layer in five months, compared with 7.14 per cent. from the whole (mixed) sample. In the course of the discussion it was stated that the duty

of the public analyst was to investigate any substance submitted to him, but it was also his duty to investigate conditions that might produce deterioration. The view was expressed that there was no standard in the Pharmacopœia for phenol ointment, and therefore no reason for pharmacists being assailed. It is obviously important that, if the ointment rapidly becomes unsatisfactory, a statement should be included on how it should be stored and for what length of time. Few chemists appear to have a regular demand for phenol ointment and only small quantities should be made or ordered at a time, the date of manufacture being clearly indicated on the container.

War Risks Insurance

In a statement on War Risks Insurance addressed to the President of the Board of Trade, the Federation of British Industries makes the suggestion that, as the fund accumulated from this compulsory insurance of stocks in the country is already in excess of the sum thought necessary, future premiums should be suspended for a period of a month, with the suspension continuing so long as there were no serious air raids. Alternatively, the Federation proposes that the Government should announce the limit it is proposed to put on the size of the fund, if immunity from air raids be continued. The Government has recently announced that the premium will continue at 5s. per cent. for a further three months commencing March 5. The Federation was persistent in its demand for State "cover" against this risk. The insurance companies were not prepared to accept the business and, somewhat reluctantly, the Government offered facilities at the moderate rate of 5s. per cent. No one complained, in fact general satisfaction was expressed in most quarters. And now, because there happen, so far, to have been no air raids and, in consequence, no losses to be met out of the state pool fund, it is suggested that premiums should be at least temporarily suspended. Most premises and stocks are insured year after year against ordinary fire and burglary risks, but it would be something new for the insured parties seriously to suggest to the insurance companies that, solely because there had been no fires or burglaries, future premiums should be remitted until something happened. It may well be that there is, under present conditions, a good case for an appeal for the rate to be reduced to, say, 2s. 6d. per cent. It was well-known at the onset that any credit balance arising from the operation of the War Risks Insurance Act would be put to the benefit of the National Exchequer, and that any debit balance would have to be met from the same source.

Export Trade

The Government have approved for publication a statement setting out the aims and plan of work of the Export Council, the expert body which was constituted recently by the President of the Board of Trade to help in achieving the big expansion of export trade made necessary by the exigencies of war. This statement was issued on March 5 as a White Paper (Cmd. 6183). The chief points are: The first aim of export industries and merchants, as well as the Export Council, should be to secure adjustments of machinery to overcome impediments to export trade. Manufacturers and merchants should be organised or organise themselves so as to work with the Council. The export trade necessary to win the war can only be achieved by some diversion from the home market. The Council regard it as vital that there should be an export committee or group

in individual industries with which they will co-operate. Questions arising may include considerations relating to particular markets, foreign exchange, political and commercial relations, and questions of economic warfare.

C. & D. Drug Index

The changes in prices for drugs, chemicals and pharmaceutical preparations for February, timed to apply from March 1, were given in THE CHEMIST AND DRUGGIST of February 24. The index figure could not then be given, on account of further possible changes up to February 29. No such changes have, however, occurred save in packed lines. Changes in price during February were comparatively few; in fact, had it not been for mercurials there would have been a marked fall in the index figure. As it was the index fell, but only by 0.4, the figure standing now at 112.9 for March 1 against 113.3 on February 1, on the basis of a 1938 average figure of 100. For January the index figure was 106.5.

A Price Problem

The City Editor of the London "Evening Standard" is the authority for a statement that, as in the last war, many retail shops are selling goods at below current wholesale prices. The result is that wholesalers, in order to sell again later at a profit, are in some instances buying back from retailers goods which they supplied at much lower prices. Retailers, as usual, are in a quandary. When, after this war is over, prices fall, customers will expect to receive immediate benefit from the reductions. But if goods bought at normal prices are sold now by retailers at prices adjusted to their replacement values an accusation of profiteering may be levelled at the "offender."

R, Butyri, nil.

Recent newspaper reports have it that German civilians have been warned "not to ask their physician to prescribe extra butter as a cure for flat feet." The intention is, no doubt, to effect a double saving of vital fats—the grease with which the doctor's palm must first be crossed as much as the butter he prescribes. Our readers will waste no sympathy on a patient whose civic conscience has clearly fallen as low as his arches. But if the Führer deplores efforts to secure butter by uncitizenlike means he is not unmindful of the importance of vitamins to health. It appears that, at his expense, all Germans are to be given a vitamin-C pill daily. To many the pill will be compulsory as well as free. Politics apart, the dictators evidently make progress. Their last compulsory medicine, as is well known, was castor oil.

Aspersions and Alibi

"Part of the Bank of England building has been daubed with green inky fluid," states a recent newspaper paragraph. On behalf of chemists, who handle many green liquids, we repudiate responsibility. The work "inky" provides the alibi. Neither lin. saponis meth., ol. sambuci, tinct. cannabis ind., nor any other green galenical we can call to mind, deserves the epithet. Even crème de menthe, which Mr. A. P. Herbert, in a contribution to "Punch," once declared to compose the contents of one of the chemists' carboys, can surely only be called inky in the inferior qualities. Nor can we accept that any pharmacist, freely and without dispensing fee, would bestow that delectable liqueur unasked upon the Old Lady of Threadneedle Street, who is clearly in a position to pay for her drinks. We must attribute the exploit to one of those revellers who usually select a pigment of more vivid hue with which to bedaub the town.

A BRACE FOR PROTECTING WINDOWS

METHODS of protecting pharmacy display windows from blast and the shattering effects of distant explosions previously described (C. & D., 1938, II, 531, 435 and 355) have consisted

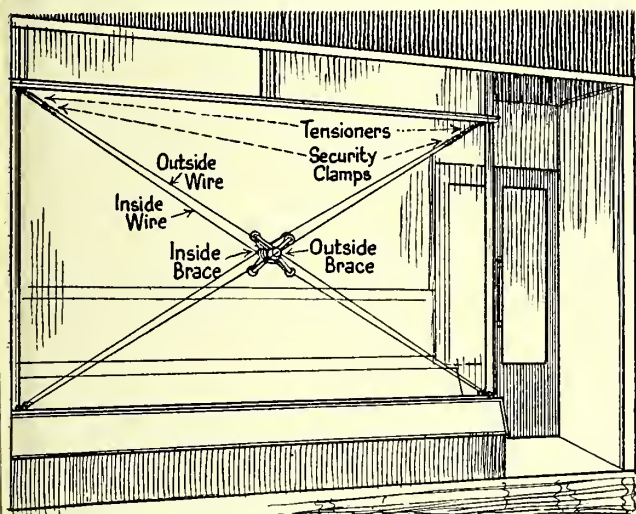


FIG. 1

of latex or synthetic lacquer sprays or of reinforcing strips. A device is now being made in this country on the lines of one that has been used successfully for some years in the United States of America in districts in which blast operations are carried on. The apparatus takes the form of a brace comprising two wooden pressure distributors, one for each side of the window, held in position by diagonal straining wires firmly fastened to stout screw-eyes fixed to the window frame or plugged into the stone surround as close as possible to the glass. Fig. 1 shows a complete installation, fig. 2 the method of fixing the wires. If it is impossible to fix them less than 2 in. from the glass, a wood washer is added to the pressure distributor head. One of the diagonal wires on each side of glass passes through a groove and the other through two holes in the pressure distributor head (fig. 3). The wires are attached to hooks at the lower corners of the window, but at the top corners they are held by tensioners and clamps. The former

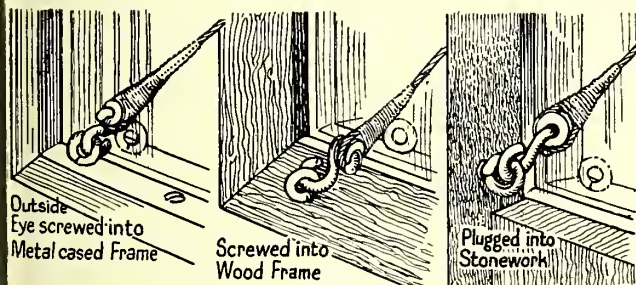


FIG. 2

are rods with threaded eyes engaged by central tubular portions which, when turned, draw in the rods. During the process of fitting, the rods have two threads only in engagement. The clamps enable a non-slipping loop to be made in the wire. After being cut to required length, the wires, with the ends closed by soldering, are threaded through the clamps and pulled as tightly as possible. The final tightening of the wire is then effected by turning the tubular portions of the tensioners, care being taken before this commences to see that all four feet of the pressure distributors are in register, that is to say exactly opposite each other on respective sides of the window. Full pressure should not be placed on any one wire all at once, nor to any side of the window before the other. The process should be gradual, each wire being given a few turns at a time. Adequate pressure is indicated by a deep musical note when the wire is twanged between the finger and thumb. It should not be possible to lift the pressure distributor away from the glass, but merely

to skid it slightly. Occasional tests should be made to ensure the maintenance of correct tension, and the wires are likely to require tightening after being subjected to an explosion. Normally the

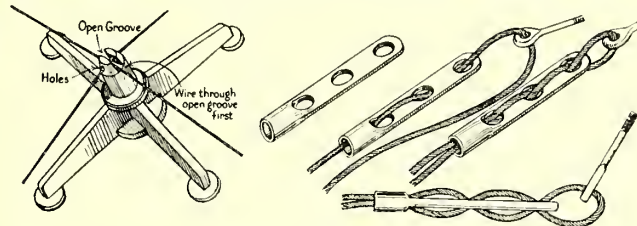


FIG. 3

pull on each eye will be from 100 to 120 lb. but, if the wires are brought into action, the pulling power may increase to 250 lb. The device takes about 1½ hours to install and requires no attention thereafter, apart from the occasional testing already mentioned. The apparatus is marketed in this country by Window Brace, Ltd.

LIQUOR ANTISEPTICUS, N.F.

With the approval of the American Pharmaceutical Association the National Formulary (sixth edition) monograph on liquor antisepticus has been revised. The new monograph becomes official on July 1, 1940. The following is the new formula:—

Boric acid	25.0 gm.
Thymol	0.5 gm.
Chlorthymol	0.5 gm.
Menthol	0.5 gm.
Eucalyptol	0.1 c.c.
Methyl salicylate	0.2 c.c.
Oil of thyme	0.01 c.c.
Alcohol	300.0 c.c.
Distilled water to	1000.0 c.c.

It will be seen that the aromatic ingredients have been considerably decreased. The proportion of thymol, chlorthymol and menthol have been halved to 0.05 per cent., and eucalyptol, methyl salicylate and oil of thyme reduced to 0.01 per cent., 0.02 per cent. and 0.001 per cent. respectively, instead of 0.2 per cent., 0.12 per cent. and 0.03 per cent. Under the new monograph all the alcohol is used to dissolve the aromatic ingredients, the solution is then mixed with the boric acid solution and sufficient water is added to produce the required volume. The finished solution is to be set aside for two hours in a closed container and filtered if necessary.

(The original method directed that the mixed boric acid and alcoholic solutions should be set aside, with occasional agitation, for twenty-four hours and filtered before the final addition of alcohol.) Denatured alcohol (Formula No. 38-B) is approved as suitable, provided adjustment is made for the amounts of formula ingredients present in it. The specific gravity of the new solution is 0.971, compared with 0.976 in the original preparation. The following quantitative test for boric acid is included in the new monograph:—

Dilute turmeric T.S. with fifteen times its volume of alcohol. Dissolve 2.3 gm. of boric acid in a sufficient quantity of an alcoholic mixture (30 per cent.) to make 100 c.c. of the boric acid solution. Mix 2.0 c.c. of the turmeric dilution with 25 c.c. of the antiseptic solution and another 2.0 c.c. of the turmeric dilution with 25 c.c. of the boric acid solution. Allow the mixtures to stand for ten minutes and then compare them in a colorimeter. The intensity of colour developed in the mixture containing the antiseptic solution is not less than that developed in the mixture containing the boric acid standard solution. (Not less than 92 per cent. of the formula amount of boric acid.)

The test for antiseptic value of the solution, involving the use of the standard culture of *staphylococcus aureus*, is unaltered.

POTENTIAL SOURCE OF VITAMINS?—"When the authorities are planning their next effort to galvanise the Irish Sea Fisheries Association into profitable activity they might take into consideration the question of sharks—the nautical variety. . . . We gather that shark-liver oil is chock-full of vitamin A, which is used in the preparation of medicines, while his skin makes leather and his fins make gelatin and soup."—From an article in the "Irish Times."

PREPARATION OF CITRUS FRUIT JUICES

THE following information on the preparation of citrus fruit juices is given in an article published in the "Bulletin of the Imperial Institute," South Kensington, London, S.W.7 (Vol. xxxvii, No. 3).

Citrus fruit juices come on to the market in various forms as (a) cordials, (b) squashes, (c) pure fruit juices, with or without fruit cells, (d) juices for special purposes, such as concentrates. The proportion of fruit juice in these beverages varies somewhat according to brand, but may be regarded usually as forming from about a third to a half of the whole. Both cordials and squashes are also prepared in an aerated or carbonated form. Early in the development of the citrus fruit juice industry all citrus juices were rendered clear, but the trend today, except with lime, is towards a cloudy or pulpy juice. During recent years much work has been done, particularly in the United States, in devising methods of preserving citrus juices in their natural state, without the addition of preservatives or other materials. The juices of different citrus fruits vary in keeping properties, and methods of manufacture vary somewhat accordingly.

Methods of Extraction; Preservatives

Lime juice manufacture presents comparatively little difficulty. The whole fruit is crushed between rollers, which express the juice together with the essential oil from the peel. The oil is separated by centrifuging. The juice is allowed to settle and the clear liquid drawn off, preservative in the form of sodium or potassium metabisulphite added, and the juice packed in casks. Extraction of juice from other important citrus fruits such as orange, lemon and grapefruit is carried out in the manner briefly described. In the most commonly used method the whole fruit, after washing, is cut in half at right angles to the axis of growth, and the juice extracted by pressing the halved fruit against a revolving conical ribbed or grooved extractor or burrer. By adjusting the speed of the burrer, inclusion in the juice of any considerable amount of "rag" or pith and essential oil from the peel can be avoided. The large pieces of fruit particles and seeds are then removed by screening, leaving behind only the finer fruit cells. When required for the manufacture of squash, the juice is shipped in this form in casks, with the addition of preservative. Under the Food and Drugs Act, sulphur dioxide and benzoic acid are the only preservatives permitted in non-alcoholic beverages sold in the United Kingdom, and the product, when retailed to the consumer, must not contain more than 350 parts per million of sulphur dioxide or 600 parts per million of benzoic acid. The preservative is usually added in the form of solutions of sodium or potassium bisulphite and sodium benzoate respectively. The equivalent amounts of these three compounds are approximately 570 parts per million of sodium bisulphite, 650 parts per million of potassium bisulphite and 710 parts per million of sodium benzoate. Benzoic acid often imparts an unpleasant "burning" taste to fruit juices and the use of sulphur dioxide preservatives is generally preferred. Raw fruit juices when imported into the United Kingdom normally contain approximately the following amounts of sulphur dioxide per million:—

Lemon and lime juice	350 parts
Grapefruit juice	650-750 parts
Orange juice	750-850 parts

As the juices are usually diluted two or three times in making up beverages, the content of sulphur dioxide in the final product is well below the permissible amount. Further preservative is then often added to bring the content up to 350 parts per million.

Modern Methods of Extraction

With orange a certain amount is prepared in concentrated form to save bulk in shipment; for this purpose the juice is roughly filtered before concentration, and concentrated under reduced pressure in special plant. Removal of suspended matter, though in some cases improving appearance, often detracts considerably from the colour, flavour and nutritive value of the expressed juice. The colour and flavour of orange juice depends to a large extent on the suspended matter which it contains, and removal of these gives a straw-yellow product lacking aroma and flavour. Orange juice is therefore now seldom prepared in the clear form.

Efforts in the United States to market citrus juices in a form closely resembling the natural juice has involved additional

stages in their preparation. The modern method of manufacturing citrus juices, as carried out extensively in the United States, proceeds along the following general lines. After screening the juice to eliminate seeds and coarse pulp, it is subjected to a process of de-aeration, i.e. removal of occluded air by vacuum treatment. It has been found that the presence of air in the juice markedly affects the flavour after storage, particularly if the juice has to be submitted to heat treatment. De-aeration is accomplished by passing the juice, in the form of a fine spray, into an evacuated tank. This removes any air which has been occluded in the juice and in the fruit particles. The tank is partly filled and the juice held under a vacuum of at least 27 in. for about ten minutes. The vacuum may then be relieved, preferably with an inert gas such as nitrogen. Immediately after de-aeration the juice is passed to a flash pasteuriser. Usually the de-aerating unit is connected with the pasteurising unit, so that the juice does not come in contact with air until it issues hot from the pasteuriser. Flash pasteurisation consists of subjecting the juice to a high temperature, in the neighbourhood of 200° F., for a short period, sometimes only a few seconds (in ordinary pasteurisation the juice is heated at a lower temperature for a longer time). After flash pasteurisation the juice is packed, either in cans or bottles, under vacuum. Grapefruit juice has better keeping properties than either orange or lemon. If a clear juice is required the method most generally applicable depends on the fact that the colloidal matter is coagulated by heat, will then settle out readily, and can be removed by filtration. The de-aerated juice is passed through a flash pasteuriser and held at about 180° F. for about a minute; it is then cooled rapidly, a quantity of filter aid (such as kieselguhr) added, and the whole passed through a filter press. The process gives a fairly good product but, as already pointed out, it is inferior to juice in which the fruit cells are allowed to remain.

Protein Precipitation

Another method used for preparing clear juices is clarification by the gelatin-tannin process. The following account of the gelatin-tannin process is given in Circ. 344, Agricultural Experiment Station, California: "The bulk of the suspended matter, particularly in apple juice, consists of protein and pectin-like substances. These colloidal substances carry an electrical charge, generally negative, and are precipitated when this charge is reduced to zero by the addition of a colloid bearing an electric charge opposite in sign to that of the colloid to be removed. Gelatin and casein act in part in this manner and in part by forming insoluble precipitates with the constituents of the juice (casein with acid, gelatin with tannin) which on settling carry with them other suspended particles. The gelatin-tannin process is the most widely used colloid-precipitation process for clearing fruit juices, but since the chemical reaction involved must be accurately adjusted for each juice and each type of gelatin used, considerable time and experience are necessary in making the required tests. Laboratory tests are first conducted to determine the correct amount of gelatin to add for the juice to be treated. Since there is danger of clouding the juice by the use of too much gelatin, tannin is usually added so that no excess of gelatin remains. The addition of tannin to the juice also helps to minimise the bleaching of the colour that occurs during a gelatin-tannin clarification, since the added tannin helps to replace the natural tannins of the juice removed during clarification. In commercial practice about 1.25 oz. of tannin and from 1.5 to 6 oz. of gelatin, according to the condition of the juice, are required per 100 gall. The tannin is added first to the juice, which is well stirred, the gelatin solution next, the juice being agitated during and for several minutes after the addition of the latter. After this the treated juice is allowed to stand undisturbed for eighteen to twenty-four hours, to enable the precipitated matter to clot together and settle out. The clarified juice is then siphoned away from the sediment, care being taken not to disturb the latter."

Pectin-destroying Enzymes

Another widely used process of clarification, particularly for apple juice, is the use of pectin-destroying enzymes. These transform pectin into insoluble pectic acid, which on precipitation carries down other suspended matter. There are various enzyme preparations on the market, and the manufacturer's directions should be closely followed if the best results are to be obtained.

The amount to be used will depend on the type and activity of the enzyme, the amount of suspended matter in the juice, the composition, and particularly the acidity, of the juice, and the temperature and time of storage. After clarification by enzymes the juice must be heated to 150° F. to prevent any further enzyme action. As citrus juices contain considerably less colloidal and pectinous material than apple or grape juice, methods of clarification such as those mentioned above are sometimes omitted, and the clear juice prepared simply by centrifuging to remove the bulk of solid material, and then filtered through a pulp filter after the addition of a filter aid. In the older methods the extracted juice was allowed to defecate, that is it was allowed to stand until the solid matter settled out in a layer at the bottom of the container, preservative such as potassium metabisulphite being added to prevent fermentation during the process. After the juice had defecated for a sufficient length of time, it was passed through a pulp filter, filter aids being sometimes used. The clear juice was then pasteurised in bottles or casks. Although, with citrus juices prepared by this method, there is little settling out on storage, the quality and appearance bear no comparison with juices prepared by up-to-date methods.

Choice of Method

The type of juice to be manufactured depends entirely on the market to be supplied. If a fastidious taste is to be met, and one which demands a juice closely approximating to the fresh, natural product, then every precaution must be introduced, resulting in higher costs of plant and manufacture. If, however, fruit juice cordial, making no pretence at approaching the nature of the fresh juice, is required, then extraction, followed by filtering and the addition of syrup, flavouring and colouring materials, and preservatives, will probably suffice.

EIRE IMPORTS FROM GERMANY

ACCORDING to the official statistics issued by the Eire authorities, the value of imports of German goods of all classes during 1938 totalled £1,479,267 which compares with a total of £1,431,389 in the previous year. In addition, there were imports from Czechoslovakia valued at £218,164 in 1938 and £253,114 in 1937. Imports from Poland totalled £162,700 and £258,870 in 1938 and 1937. Imports of German goods of classes of interest to the chemical and allied trades during the years 1937 and 1938 were as follows:—

CHEMICALS, DRUGS, PERFUMERY AND DYES

	Quantity in cwt.		Value in £	
	1937	1938	1937	1938
Total imports	—	—	62,778	60,849
Disinfectants, etc. (including weed-killers)	505	1,103	2,497	5,907
Sodium compounds	4,862	5,496	4,476	6,061
Perfumery, cosmetics, etc.	—	—	3,877	3,286
Medicines and medicinal preparations	—	—	11,523	9,650
Dyes and dyestuffs	1,217	1,144	11,294	10,933
Painters' colours and materials	25,013	23,972	15,866	12,317

Following are the figures for imports of fertilisers, etc.:—

	Quantity in tons		Value in £	
	1937	1938	1937	1938
Total imports	—	—	75,056	40,164
Basic slag	—	4,150	—	11,579
Kainit	7,369	1,298	16,611	2,960
Potash manure salts	8,931	2,545	30,851	10,571
Muriate of potash	3,347	1,672	24,802	12,205

Imports of refined oils, oil seeds, fats, etc., were valued at £10,889 in 1937 and 1938 respectively out of total imports worth £11,101 and £14,127.

USES OF PHENOTHIAZINE

THE United States Department of Agriculture is now releasing to accredited manufacturers formulas for certain animal medicines involving the use of phenothiazine. This compound, parent of many important dyes, is prepared from diphenylamine (a coal-tar derivative) and sulphur. Chemically it is related to sulphanilamide, and for several years it has been under development as an insecticide having a low toxicity to warm-blooded animals including man. Work upon it has been done largely by scientists at the United States Department of Agriculture, the original research having been carried out by L. E. Smith in the Bureau of Entomology and Plant Quarantine. Following careful tests and experiments, the Department has devised formulas presenting phenothiazine in medicines suitable for treating certain worm infestations of sheep, swine, and horses that have hitherto resisted medication. Sheep known to be infested with nodular worms have been given capsules containing phenothiazine, and treatment was found to be 85 to 100 per cent. effective. Investigation has shown the treatment to be effective also against stomach worms, bankrupt worms and hook worms. Hogs were dosed with phenothiazine by mixing it with their feed, and it was found effective against the nodular and large round worms. Previously there had been no effective treatment for the former. Phenothiazine has also been found effective in treating strongyles in horses. So far, the best effects have been obtained from treating animals with long intestinal tracts. Creatures with shorter tracts, such as birds, cats and dogs, do not seem to be benefited.

Applications in Urinary Disorders

Tests made by the Food Research Laboratories of the Bureau of Agricultural Chemistry and Engineering to determine absence of ill effects on warm-blooded animals were successful. Feeding phenothiazine to white rats, Dr. Floyd De Eds noticed that the hair acquired a reddish tinge. The discoloration was traceable to the rats' urine, examination of which showed it to be completely sterile. Further laboratory tests with rats and rabbits demonstrated that phenothiazine has marked bactericidal property without injury to the animal's digestive tracts and other internal organs. The experiments have been extended to human beings. With the co-operation of Stanford University School of Medicine and Dr. De Eds, persons suffering from inflamed urinary-tract, particularly those with cystitis and pyelitis, have been treated. It is pointed out that these disorders are not to be confused with functional diseases such as Bright's. The first clinical cases were treated with phenothiazine alone. Of forty-nine patients, thirty-three were chronic cases and sixteen had acute urinary-tract infections. All but eight found relief. At least fifteen patients were completely cured—possibly more, because several patients who showed improvement discontinued reporting to the clinic. Water treatments indicated that the bactericidal action of phenothiazine is greater when the urine is acidified by administering ammonium chloride. Of thirty-one patients who received this combination treatment, twenty-five were completely cured and only three remained unimproved. Clinical studies showed that none of the patients suffered ill effects to the digestive tract, kidneys or liver, but the drug has been found capable of producing secondary anaemia when given in repeated medicinal doses. When this condition develops, treatment must be discontinued.

Patent Granted

A public-service patent covering the use of phenothiazine and its oxidation derivatives as urinary antiseptics has been granted to Dr. De Eds and his associates, together with a similar patent for the production of thionol, the most efficient of the oxidation derivatives so far investigated. At present, phenothiazine is being used on sheep, swine and horses. Laboratory tests suggest its ultimate wide use as an insecticide on fruits and vegetables. It is indicated as valuable in control of such pests as the codling moth, Mexican bean beetle and grape berry moth, but has proved ineffective against the boll weevil, tobacco hornworm and the Japanese beetle. Tests have been carried out on about fifty insect species. The spread of its use as an insecticide has been limited because the small quantities now manufactured make the price high, and because the drug must be combined with another substance to cause it to "stick" and build up a residue where sprayed. Fruit trees are attacked by both insects and fungous diseases, and have therefore had to be sprayed separately until this compound was employed. Phenothiazine is said to reduce spraying to one application.

TRADE REPORT

Quotations recorded for pharmaceutical chemicals, crude drugs, essential oils, etc., represent the spot prices for wholesale quantities of standard quality. C.i.f. shipment quotations do not include marine war risk insurance and other abnormal charges which arise under the present state of emergency

28 Essex Street, W.C.2, March 6

THE tone in all markets during the past week has continued firm and business is reported to be moving along on satisfactory lines. The demand for PHARMACEUTICAL CHEMICALS has been fairly good throughout the week, and there are few price changes to record in this market. There is a tendency for some of the imported products to move to higher spot values, due to small stocks and higher replacement costs. Shipment business to near Continental countries continues good.

Crude Drugs

A quiet, but steady, consuming trade is reported, with values holding fully steady. A very fair Continental export trade is also reported. Stocks of a number of important commodities continue to be limited. In ALOES the limited stocks of Curaçao in London still restrict business, but values are firm. BALSAMS remain fully steady, and supplies of all descriptions, particularly Tolu, are short. A steady routine trade in CASCARA SAGRADA continues at full prices. In DESICCATED COCONUT the market is steadier. More inquiry is reported for DERRIS ROOT and, with stocks limited, prices are firm; there are no shipment offers. The ERGOT market continues to be firm and short on spot, with no shipment offers of Portuguese or Spanish. Some small amounts of Portuguese are available on spot. At current quotations the market for West African GINGER is steadier. Sudan GUM ACACIA is reported easier, but steady at the decline. All descriptions of HONEY are in short supply and firmly quoted. A small trade is noted in Japanese MENTHOL, while a good sale is reported of Chinese material. RHUBARB continues firm, with a shortage of good quality rough-round. The RUBBER market closed steadier on the week, with a fair volume of business reported. SENEGA remains dull. Quoted values of TRAGACANTH are unchanged, the market remaining quiet.

Essential Oils

The majority of these products have met with a fair demand during the week. Some price changes are noted. The position as regards further supplies from many of the overseas sources continues difficult. Costs cannot be calculated and shipments are uncertain. Values of expressed ALMOND are unchanged and the demand remains moderate. ANISE (STAR) is steadier for shipment, but the spot market remains slack. Business in CASSIA remains dull. It is increasingly difficult to get shipment offers of Australian EUCALYPTUS from the source, but some supplies are available in London at full prices. French LAVENDER remains dull, with values steady. Shipment of new-crop Sicilian LEMON remains quiet, with spot prices on a slightly lower level. LEMONGRASS is reported dull on spot, with shipment steadier. Scarcity of spot supplies of genuine MANDARIN is still reported, and the shipment market is firm. A fair trade is reported in Japanese and Chinese PEPPERMINT, with the market steady. Some fresh spot supplies of PETITGRAIN are reported. WORMSEED is quoted firm on spot, and there are but few shipment offers of good-quality oil at very high figures.

Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Wednesday morning:—

Centre	Quoted	Par	February 28	March 6
Amsterdam ..	Fls. to £	12.107	7.54*	7.55*
Berlin ..	Mks. to £	20.46	—	—
Brussels ..	Belgas to £	nominal	23.77*	23.77*
Copenhagen ..	Kr. to £	18.159	20½	20½
Lisbon ..	Esc. to £	110	108½	108
Madrid ..	Ptas to £	25.24½	38.75	38.75
Milan ..	Lire to £	92.46	77½	77
Montreal ..	Dols. to £	4.86½	4.45*	4.45*
New York ..	Dols. to £	nominal	4.03*	4.03*
Oslo ..	Kr. to £	18.159	17.70*	17.70*
Paris ..	Fr. to £	124.21	176½*	176½*
Prague ..	Kr. to £	164.25	—	—
Stockholm ..	Kr. to £	18.150	16.90*	16.90*
Warsaw ..	Zloty to £	43.38	—	—
Zurich ..	Frs. to £	22.2115	17.90*	17.90*

* Rate fixed by Bank of England.

Bank rate, 2 per cent.

Pharmaceutical Chemicals, etc.

RAIHER quiet markets are reported. Dealers' prices for amidopyrine and phenacetin have advanced. Spot quotations for quinine sulphate are reported firmer.

ACETANILIDE.—Steady; fair trade in small lots: B.P., leviss., quoted at from 2s. 3d. to 2s. 6d. per lb., as to quantity.

AMIDOPYRINE.—Dealers' prices have advanced; supplies are small: One cwt., 18s.; smaller quantities, up to 20s. per lb. for crystals, with powder 3d. per lb. extra. Replacements will cost over 20s.

AMMONIUM ICHTHIOSULPHONATE.—Dealers' prices are steady: One cwt. lots, in 1-lb. tins, 3s. 3d.; smaller lots, 3s. 6d.; in 14-lb. tins, one cwt., 2s. 9d.; smaller lots, 3s. per lb., ex store.

ASPIRIN.—Makers' scales of prices continue steady:—

Quantity	In containers of					
	1 lb.	2 lb.	4 lb.	7 lb.	14 lb.	28 lb.
1 lb. and under 4 lb. ..	s. d. 3 10½	s. d. 3 9	—	—	—	—
4 lb. and under 7 lb. ..	3 9½	3 8	3 7½	—	—	—
7 lb. and under 14 lb. ..	3 8½	3 7	3 6½	3 6½	—	—
14 lb. and under 28 lb. ..	3 7½	3 6	3 5½	3 5½	3 5	—
28 lb. and under 1 cwt. ..	3 6½	3 5	3 4½	3 4½	3 4	3 3½
Not less than 1 cwt. ..	2 11½	2 10	2 9½	2 9½	2 9*	2 8½
" " " 5 cwt. ..	2 11	2 9½	2 9½	2 8½	2 8½*	2 8
" " " 10 cwt. ..	2 10	2 8½	2 8½	2 7½	2 7½*	2 7

* 8 × 14 lb. and upwards in one delivery, ½d. per lb. less.

Sale is subject to an undertaking on part of buyer not to re-sell any quantity at prices or terms below scale for such quantity current at time re-sale is made, and, if he converts the aspirin into tablets, not to sell any quantity of tablets at prices or terms below the scale for such quantity current at time of sale.

BENZALDEHYDE.—Makers are quoting from 2s. 6d. to 3s. per lb., as to quantity.

BENZOIC ACID (B.P.)—Makers' quotations range from 1s. 10½d. to 2s. 3d. for forward delivery. An alternative source quotes from 2s. 2d. to 2s. 4½d. per lb., as to quantity.

BISMUTH SALTS.—Makers' prices for the following are unchanged:—

	Less than 4 lb.	4 lb.	8 lb.	28 lb.	1 cwt.
Carbonate, B.P. ..	s. d. 10 10	s. d. 10 4	s. d. 9 7	s. d. 8 3	s. d. 8 0
Citrate, B.P.C. ..	13 0	12 6	11 9	10 1	9 10
Nitrate, cryst. ..	7 4	6 10	6 1	5 4	5 1
Oxide, B.P.C. ..	14 5	13 11	13 2	11 3	11 0
Oxychloride, B.P. ..	13 11	13 5	12 8	10 10	10 7
Salicylate, B.P. ..	10 9	10 3	9 6	8 3	8 0
Subgallate, B.P.C. ..	10 6	10 0	9 3	7 11	7 8
Subnitrate, B.P.C. ..	9 4	8 10	8 1	7 0	6 9

Rebate of threepence per lb. allowed on sales of not less than 2 cwt. (either for prompt delivery or on contract) provided delivery is completed within three months. Contracts subject to rise-and-fall clause.

BROMIDES.—Makers' scales of prices are firm. The scales are as follows: POTASSIUM (B.P.), not less than 5 cwt., 2s. 2d.; 1 cwt., 2s. 3d.; 28 lb., 2s. 9½d. per lb. SODIUM (B.P.) not less than 5 cwt., 2s. 4½d.; 1 cwt., 2s. 5½d.; 28 lb., 3s. per lb. AMMONIUM (B.P.C.), not less than 5 cwt., 2s. 5½d.; 1 cwt., 2s. 6½d.; 28 lb., 3s. 1d. per lb. Net. Rise-and-fall and re-sale clauses apply. Without engagement. Special prices for larger quantities. 28-lb. parcels and 1-cwt. cases or kegs free.

CAFFEINE.—Dutch shippers' quotations are firm at the recent advance, as follows: PURE, less than 56 lb., 2 dollars 55 cents; 56 lb., 2 dollars 50 cents; 1 cwt., 2 dollars 45 cents; and 2 cwt., 2 dollars 40 cents per lb. CITRATE, less than 56 lb., 1 dollar 63 cents; 56 lb., 1 dollar 61 cents; 1 cwt., 1 dollar 58 cents; 2 cwt., 1 dollar 56 cents, f.o.b. Amsterdam or Rotterdam. Very little PURE on spot and prices would not be less than 20s. to 20s. 6d. per lb.

CITRATES.—Makers' scales of re-sale prices were recently revised. It is a condition of sale that buyers undertake not to re-sell any of the undermentioned products at prices below the values given, which came into operation on January 24.

POTASSIUM, B.P.

QUANTITY	In containers of					
	1 lb.	2 lb.	4 lb.	7 lb.	14 lb.	28 lb.
Under 4 lb. ..	s. d. 3 0	s. d. 2 10½	—	—	—	—
4 lb. and under 7 lb. ..	2 11	2 9½	2 9½	—	—	—
7 lb. and under 14 lb. ..	2 10	2 8½	2 8½	2 7½	—	—
14 lb. and under 28 lb. ..	2 9	2 7½	2 7½	2 6½	2 6½	—
28 lb. and under 1 cwt. ..	2 8	2 6½	2 6½	2 5½	2 5½	2 5

28-lb. tins charged 2s. each.

SODIUM, B.P., one penny per lb. below corresponding prices for POTASSIUM, B.P. IRON AND AMMONIUM (SCALES), B.P., threepence per lb. above corresponding prices for POTASSIUM, B.P. Prices net. All packages charged extra.

Late price changes are given in the Coloured Supplement

CITRIC ACID (B.P. CRYSTALS).—Makers' price for home consumers continues nominal at 1s. 2d. per lb., less 5 per cent. discount. Dealers' prices for any material available would be in the region of 1s. 8d. per lb.

CREAM OF TARTAR (B.P.).—One maker notifies price for home trade continues nominal at 12s. 6d. per cwt., less 2½ per cent. discount, with supplies restricted to regular consumer customers.

EMETINE HYDROCHLORIDE.—Makers quote at from 95s. to 99s. per oz., as to quantity. Market firm and tending dearer.

EPHEDRINE.—Business quiet and slightly easier for bulk quantities. **HYDROCHLORIDE, B.P.**, at about 11s. 6d. to 11s. 9d. per oz., and smaller parcels at up to 12s. 9d. per oz.

ETHERS (METHYLATED).—Makers' scales of prices are steady at the recent advance:—

Grade	W. qts. per lb.	Not less than		Drums and Carboys per lb.
		6 w. qts. per lb.	12 w. qts. per lb.	
s.g.	s. d.	s. d.	s. d.	s. d.
750	1 3½	1 3	1 2½	1 1½
735	1 4	1 3½	1 3	1 2
730	1 4	1 3½	1 3	1 2
725	1 6	1 5½	1 5	1 4
725 triply rect.	1 10½	1 10	1 9½	1 8½
720	1 7	1 6½	1 6	1 5
717	2 1	2 0½	2 0	1 11
720 B.P. not for anaesthesia	1 9	1 8½	1 8	1 7

Net prices, usual terms. Special prices for quantities and contracts, subject to rise-and-fall clause.

GALLIC ACID.—Market firm but quiet; Dealers quote cwt. lots at from 3s. 9d. and smaller parcels at up to 4s. 3d. per lb., ex store.

GUAIACOL CARBONATE.—Makers and dealers are quoting at from 2s. 6d. to 13s. per lb., ex store, as to quantity.

GUAIACOL (CRYSTALS).—Makers' prices are nominal at 10s. 9d. to 1s. 6d. per lb., as to quantity. Liquid, from 10s. 6d. upwards, as to quantity.

HEXAMINE.—Quiet, market steady; Free-running crystals quoted at about 1s. 7½d. for bulk quantities up to 1s. 10½d. per lb. for small parcels; powder at cheaper prices.

HOMATROPINE.—Makers' prices are as follows:—

	gm.	oz.	4 oz.	16 oz.
alkaloid	2s. 9d.	7os.	65s. oz.	6os. oz.
hydrochloride	2s. 2d.	55s.	50s. oz.	45s. oz.
hydrobromide	2s. 2d.	55s.	50s. oz.	45s. oz.
ulphate	2s. 2d.	55s.	50s. oz.	45s. oz.

PACKAGES	Under 5 gm. of ½ oz.	5 gm. to 25 gm. or ½ oz. to 1 oz.	25 gm. or 1 oz.	50 gm. or 2 oz.	100 gm. and over
bottles, corked, each	3d.	3½d.	3½d.	4d.	included
bottles, stoppered, each	5d.	6d.	7½d.	9d.	included
5-gr. tubes, per 100	10s. 6d.				
10-gr. tubes, per 100	12s. 3d.				
5-gr. tubes, per 100	14s. od.				

LACTIC ACID (B.P.).—Limited business, with values unchanged; Quantities, in 1-cwt. carboys, 1s. 6½d. to 1s. 7½d.; in winchesters and bottles, 1s. 9d. to 2s. per lb., ex store.

MERCURY IODIDES.—Makers' prices are as follows:—RED, less than 7 lb., 17s. 4d.; not less than 7 lb., 17s.; not less than 14 lb., 16s. 6d. GREEN, less than 7 lb., 19s. 4d.; not less than 7 lb., 19s.; not less than 14 lb., 18s. 6d. YELLOW, less than 7 lb., 20s. 10d.; not less than 7 lb., 20s. 6d.; not less than 14 lb., 20s. per lb., net, carriage paid.

METHYL SULPHONAL.—A very small supply on spot is valued at from 40s. to 42s. 6d. per lb., ex store.

PARALDEHYDE.—Spot prices for quantities, in 1-cwt. carboys, steady at 1s. 3d. to 1s. 3½d.; smaller quantities, in winchesters, up to 1s. 10½d. per lb., ex store.

PHENACETIN.—Makers' prices for ordinary quantities continue at s. 6d. to 3s. 9d. per lb., and quotations are given without engagement. Little material is in dealers' hands, and prices are firm at about 6s. upwards per lb.

PHENAZONE.—Limited supplies of imported material. Dealers' prices are rather dearer and now range from 18s. for bulk quantities up to 22s. per lb., for small parcels, ex store.

PHENOLPHTHALEIN.—Makers' prices are firm: Less than 7 lb., s. 8d.; 7 lb., 3s. 7d.; 14 lb., 3s. 6d.; 28 lb., 3s. 5d.; one cwt., 3s. 4d. per lb.

PHENYLETHYLBARBITURIC ACID (B.P.).—Very limited supplies here; quotations firm; quoted at from 35s. to 37s. 6d. per lb., in bottles.

PIPERAZINE.—The price for bulk quantities would be about 75s. per lb.; small lots, in 1-oz. bottles, 5s. 6d. to 6s. per oz.

POTASSIUM PERMANGANATE.—Makers' scales of prices continue at the advance recorded last week, as follows:—

Minimum one delivery of:	B.P. Quality		Technical	
	In 1-cwt. drums	In 5-cwt. drums	In 1-cwt. drums	In 5-cwt. drums
	Per lb.	Per lb.	Per cwt.	Per cwt.
1 cwt. up	s. d. 1 5½	s. d. —	s. d. 161 6	s. d. —
3 cwt. up	1 5	—	157 0	—
5 cwt. up	1 4½	1 4½	154 6	152 0
1 ton up	1 4½	1 4½	152 0	149 6
4 tons up	1 4½	1 4	149 6	147 3

Terms: Net, delivered nearest railway station in Great Britain, drums extra and returnable.

QUININE SALTS.—Prices for these salts are firm: SULPHATE, 104·90 Dutch florins; HYDROCHLORIDE, 131·25; BIHYDROCHLORIDE, 143·75; ETHYL CARBONATE, 134·50 per 100 oz., f.o.b. Holland. 100-oz. tins free; smaller packages extra. The limited supply of SULPHATE now in dealers' hands quoted at 3s. 1d. to 3s. 2d. per oz.

RESORCIN.—Prices were recently advanced as follows: Not less than 7 lb., 7s. 3d.; not less than 14 lb., 7s.; not less than 56 lb., 6s. 10d.; not less than 1 cwt., 6s. 9d. per lb. Dealers' prices for any spot material available would be in the region of 8s. 6d. to 9s. per lb.

SALICYLIC ACID (B.P.).—Makers' scales of prices are as follows:—

In containers of	1 lb.	2 lb.	4 lb.	7 lb.	14 lb.	28 lb.
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Under 4 lb.	2 7½	2 6	—	—	—	—
4 lb. and under 7 lb.	2 6½	2 5	2 4½	—	—	—
7 lb. and under 14 lb.	2 5½	2 4	2 3½	2 3½	—	—
14 lb. and under 28 lb.	2 4½	2 3	2 2½	2 2½	2 2	—
28 lb. and under 1 cwt.	2 3½	2 2	2 1½	2 1½	2 1	2 0½
1 cwt. and under 5 cwt.	1 11½	1 10	1 9½	1 9½	1 9*	1 8½
5 cwt. and under 1 ton	1 11	1 9½	1 9½	1 8½	1 8½*	1 8
1 ton	1 10	1 8½	1 8½	1 7½	1 7½*	1 7

* 8 × 14 lb. and upwards, in one delivery, ½d. lb. less.

Prices include parcels or collapsible cartons; other packages charged extra. Sodium salicylate cannot be assorted with salicylic acid. Prices are quoted subject to an undertaking on part of buyers not to re-sell any quantities at prices or terms below scale for such quantities current at time re-sale is made.

SANTONIN.—Convention prices continue to be quoted unchanged. The scale is as follows: 15 kilo and over, £35 10s.; not less than 10 kilo, £36 5s.; not less than 5 kilo, £37; less than 5 kilo, £38 per kilo, delivered free in the U.K., 1-kilo tins free. Quotations for spot parcels are in the region of £37 to £38 per kilo.

SODIUM BARBITONE.—The current quotations are: One cwt. 23s.; 28 lb., 24s.; smaller quantities, 27s. per lb., ex store.

SODIUM BENZOATE (B.P.).—Demand continues fair, with values steady; Makers' and dealers' prices are steady at 1s. 9d. for bulk quantities, up to 2s. 2d. per lb. for small parcels.

SODIUM SALICYLATE (B.P.).—Makers' scales of prices are as follows:—

In containers of	1 lb.	2 lb.	4 lb.	7 lb.	14 lb.	28 lb.
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Under 4 lb.	2 9	2 7½	—	—	—	—
4 lb. and under 7 lb.	2 8	2 6½	2 6½	—	—	—
7 lb. and under 14 lb.	2 7	2 5½	2 5½	2 4½	—	—
14 lb. and under 28 lb.	2 6	2 4½	2 4½	2 3½	2 3½	—
28 lb. and under 1 cwt.	2 5	2 3½	2 3½	2 2½	2 2½	2 2
1 cwt. and under 5 cwt.	2 0	1 10½	1 10½	1 9½	1 9½*	1 9
5 cwt. and under 1 ton	1 11½	1 10	1 9½	1 9½	1 9*	1 8½
1 ton	1 11	1 9½	1 9½	1 8½	1 8½*	1 8

* 8 × 14 lb. and upwards, in one delivery, ½d. lb. less.

Prices include parcels or collapsible cartons; other packages charged extra. Sodium salicylate cannot be assorted with salicylic acid. Prices are quoted subject to an undertaking on part of buyer not to re-sell any quantities of above product at prices or terms below scale for such quantities current at time re-sale is made.

SULPHONAL.—Dealers' spot price for bulk quantities is now at 33s. per lb.; for small parcels, up to 35s. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Makers advise their quotation, which continues nominal, is now at 1s. 6½d. per lb., less 5 per cent. discount. Supplies are limited and reserved for regular consumer customers. Dealers have practically nothing to offer.

THEOBROMINE.—Dutch shippers' prices were recently advanced, but offerings are stated to be very limited. PURE: Less than 56 lb., 2 dollars 55 cents; 56 lb., 2 dollars 50 cents; 1 cwt., 2 dollars 45 cents; 2 cwt., 2 dollars 40 cents per lb. SODA SAL.: Less than 56 lb., 1 dollar 81 cents; 56 lb., 1 dollar 79 cents; 1 cwt., 1 dollar 77 cents; 2 cwt., 1 dollar 74 cents per lb., f.o.b. Amsterdam or Rotterdam.

VANILLIN.—Makers' prices are as follows: Ex clove oil or guaiacol, five cwt., 14s. 6d.; one cwt., 14s. 7½d.; 56 lb., 14s. 9d.; less than 56 lb., 15s. per lb., carriage paid in the United Kingdom.

Crude Drugs, etc.

A QUIET but steady consuming trade is reported, with values holding fully steady. Stocks continue to be limited. A fair Continental export trade is also reported, chiefly to Scandinavian countries.

AGAR.—The better demand reported last week continues, though spot stocks are small. Kobe No. 1, 8s. 3d.; Kobe No. 2, 7s. 9d.; Yokohama No. 1, 7s. 8d. per lb., duty paid. A good demand for the January-February position is reported, Kobe No. 1, 6s. per lb., c.i.f., paid, with few further sellers. February-March, 6s. per lb., c.i.f. (re-seller). Japanese shippers' quotations for February-March are: Kobe No. 1, 6s. 2d. to 6s. 3d.; Kobe No. 2, 5s. 11d.; and Yokohama No. 1, 5s. 11d. per lb., c.i.f.

ALOES.—The limited stocks in this market still restrict business; values are firm. Spot, Curaçao, 285s. to 300s. per cwt., ex store, with no shipment offers from origin. Cape is steady with a limited sale, spot, 57s. 6d. to 60s.; Zanzibar, leaves, neglected; quoted at 80s. to 85s. per cwt., ex store.

ANTIMONY.—English regulus, £100 to £102 10s. Continental regulus, £93 to £95 10s. per ton, duty paid.

BALSAMS.—Supplies of all descriptions continue to be short; market fully steady as quoted. *Tolu*, about 5s. 6d.; very soft, 5s. 3d. *Canada*, in very small supply at about 5s. 6d. *Copaiba*, Para, 3s. 6d.; *Peru*, 8s. 9d. per lb., duty paid.

BUCHU.—The London market is steady but quiet, with values unchanged. New-crop rounds are offered at from 2s. 9d. to 3s. and ovals at 2s. 9d. per lb., ex store. Shippers are not quoting at present.

CAMPHOR.—There are still no offers of BB commercial grade for shipment; spot market is firm. Japanese: Tablets, 5s. 6d.; powder, afloat, 5s. 2d.; slabs, 5s. 1d. per lb., duty paid. Isolated shipment offer of slabs at 4s. 7d., c.i.f., March-April shipment. Continental synthetic, powder, 5s., tablets, 5s. 6d. per lb., ex store. English refined flowers, one cwt., 5s. 1d.; 28 lb., 5s. 2d.; less than 28 lb., 5s. 3d. per lb. Transparent tablets, 4-oz., one cwt., 5s. 7d.; 28 lb., 5s. 8d.; less than 28 lb., 5s. 9d. per lb.

CARDAMOMS.—A small trade is reported, with the supply short. Ceylon, bleached, bold, 5s.; medium pale, 3s. 9d. to 4s.; small, 3s. 6d.; Bombay seed, 4s. 6d. per lb.; Mangalore seed, 4s. 3d.; Aleppy greens, spot, 3s. 3d. to 3s. 4d.; shipment, 2s. 6d., c.i.f.

CASCARA SAGRADA.—A steady routine trade continues. Spot, 1939 peel, up to 100s. per cwt., ex store, 1938 peel, up to 102s. 6d. per cwt., ex store. Shipment remains unchanged at about 85s. per cwt., c.i.f., in minimum car-load lots.

CASCARILLA.—Small spot stocks are available at about 1s. 5d. to 1s. 6d. per lb., ex store.

CLOVES.—A rather quiet but steady market is reported. Zanzibar, spot, 10d. per lb.; shipment, March-April, 9½d., c.i.f. Madagascar, sellers at 10½d. per lb., in bond; shipment, March-April, 9½d. per lb., c.i.f.

COCONUT (DESICCATED).—The market is steadier. Spot, fine, 27s.; medium, 28s.; shipment, March-April, 25s. per cwt., c.i.f.

COD LIVER OIL.—No change is reported in this market. British-made medicinal-quality oil is reported by the producers to be available, bulk quantities being at 8s. per gallon, in drums, delivered, and veterinary-grade oil obtainable in drums, tins, and bottles. Norwegian medicinal oil is firm. Spot, in tins, from 10s. 6d. to 12s. per gallon, as to quantity.

DERRIS ROOT.—Fair inquiry but not much business; spot holders' prices are firm in view of lack of shipment offers, but buyers are not attracted by current values and with stocks limited prices are firm: no shipment offers. Spot, 18 per cent. ether extract, 7½d. to 8d. per lb. Root of 4 to 5 per cent. rotenone content, if available, about 1s. 3d. per lb., ex store. No definite shipment offers.

DIGITALIS LEAVES.—Dealers' prices continue fully steady. Spot parcels are at about 110s. to 112s. 6d. per cwt., ex store.

ERGOT.—This market continues firm and short on spot. No shipment offers. Some small amounts of Portuguese on spot are valued at from 22s. 6d. to 24s. 6d. per lb. While there are no definite shipment offers the value has been indicated at about 22s. per lb., c.i.f. Hungarian, spot, about 14s., and afloat, 12s. 9d. per lb., c.i.f.

GINGER.—At current quotations the market is steadier: West African spot, 32s.; shipment, March-April, 24s. per cwt., c.i.f. Jamaican, spot, small medium, 55s. to 57s. 6d.; bold, in barrels, 90s. per cwt., ex store. Cochín, unwashed, 47s. 6d. to 50s. per cwt., ex store; shipment, 37s. 6d. per cwt., c.i.f.

GUM ACACIA.—This market is reported easier, but steady at the decline. Kordofan cleaned sorts, spot, 69s.; shipment, 45s. per cwt., c.i.f.

HENBANE.—Spot is nominal at about 165s. to 170s. per cwt., ex store.

HENNA.—Firm quotations continue for new-crop Egyptian leaves. Limited supplies are available in London: Green, 55s.; brown, 47s. 6d. per cwt., ex store.

HONEY.—All varieties are in short supply and firm as quoted. Values of Jamaican are nominal at about 95s. to 105s. per cwt.

Canadian is also short and the value is now not less than 95s. per cwt., ex store. Some Australian is offered in London at 85s. to 90s. per cwt., as to grade.

HYDRASTIS.—A quiet, steady market. Spot, good-test root, 21s.; U.S.P., 19s. 6d., ex store; shipment, 19s. per lb., c.i.f.

IPECACUANHA.—Market is firm. Some business is reported in Matto Grosso at 25s. per lb., odd bales of good-test 27s. 6d. per lb. now asked. Some business is also reported in January-February shipment at 25s. per lb., landed terms. No shipment offers from source. Minas is about steady on spot at 14s. to 14s. 6d. per lb.; shipment, 11s. 6d. to 11s. 9d. per lb., c.i.f. EXT. IPECAC. LIQ., B.P., advanced to 32s. per lb. for minimum lots of twelve winchesters.

KAMALA.—The small spot supply is valued at about 1s. 8d. to 1s. 9d. per lb., as to quantity. Business quiet.

LAVENDER FLOWERS.—Spot, medium-blue French flowers are at about 140s. per cwt., ex store.

MENTHOL.—A small trade is reported in Japanese, with spot, duty paid, at 20s., and in bond at 19s. for K/S brands. Shipment offers are in the region of 22s. per lb., c.i.f., but no business is being done. A good sale is reported of Chinese material at about 15s. to 15s. 3d. per lb., duty paid; shipment, March-April, 12s. 6d. to 13s. 6d. per lb., c.i.f. Fair quantities of Chinese have arrived recently and these goods are in strong hands.

MERCURY.—The shipment quotation for Spanish-Italian metal shows no further advance at 200 American dollars per flask, f.o.b. Mediterranean port; ex warehouse, London, 207 dollars.

PEPPER.—Limited trade, with values steady. Lampung, in bond, 3½d., March-April, 2½d., c.i.f. Tellicherry, spot, 5½d.; March-April, 3s., c.i.f. Aleppy, spot, 5d.; March-April, 3s., c.i.f. White Muntok, duty paid, 5½d.; in bond, 5d.; afloat, 4½d.; March-April, 4½d. per lb., c.i.f.

PIMENTO.—Business quiet, with values unchanged. Spot, 10½d. per lb.; shipment, March-April, 89s. per cwt., c.i.f.

RHUBARB.—The market continues firm, with a good trade in rough-round at full prices reported. Spot, rough-round, good quality, up to 4s. 6d. per lb.; very slightly wormy, 3s. 6d. to 3s. 9d. per lb. Bold to medium Shensi held for 6s. 6d. to 7s. per lb. in cases, as to quality and seller. Although there have recently been good arrivals of rough-round, sales have substantially depleted stocks.

RUBBER.—A fair volume of business continues, the market having closed steadier. Standard ribbed smoked sheet, spot 12½d.; March, 12½d.; April, 12½d.; May, 12d.; July-September, 11½d. per lb.

SEEDS.—ANISE.—Spot, duty paid, Bulgarian, 75s.; Cyprus, 75s., duty free. CANARY.—Spot, duty paid, Mazagan, quoted at 27s. 6d. CARAWAY.—Spot, duty paid, Dutch, 85s. CORIANDER.—Market dull. Morocco, spot, offered at 24s. 6d., duty paid, and 23s., in bond. Shipment, March-April, 20s., c.i.f., quoted. CUMIN.—Spot, Morocco, 85s., duty paid, and 80s., in bond; Cyprus, 80s., duty free. No Malta to be had on spot; 90s., c.i.f., quoted for shipment by first available steamer. DILL.—Spot, Indian, 41 per cent, 36s. 6d. FENNEL.—Spot, Indian, 52s. 6d. to 55s.; Iran, 55s., in bond. FENUGREEK.—Spot, Morocco, quoted at 20s., duty paid ex wharf London, and 19s., ex store Liverpool. MUSTARD.—English, 75s. to 78s., according to quality.

SENEGA.—The spot market continues steady but quiet. Spot, about 4s. 6d. per lb., ex store. Shipment irregular at 4s. 4d. to 4s. 6d. per lb., c.i.f.

SENNA.—Fair amount of small business moving at full prices: Tinnevely leaves: No. 1, 8½d.; No. 2, 5½d.; No. 3, 4½d. per lb. Tinnevely pods: Best pale hand-picked, 10d.; darker grades, 5½d.-6½d.; f.a.q., 4½d. per lb. Alexandrian pods: The market is poorly supplied with good green bold hand-picked, and prices are nominal. Manufacturing quality, 7d. per lb., ex wharf, London.

SHELLAC.—Market is quoted easier on the week: Spot, standard TN orange, 82s. to 85s.; pure button, 127s. 6d.; fine orange, 135s. to 170s. per cwt. For arrival, TN orange, 77s. per cwt., c.i.f.

STRAMONIUM LEAVES.—New-crop shipment prices firm at 65s. to 75s. per cwt., as to colour; spot values firm at 67s. 6d. to 70s. per cwt., tending dearer.

TONKA BEANS.—Business of small account: Fair frosted Para beans quoted at from 2s. to 2s. 3d. per lb., as to quality and quantity, ex store. Angostura, spot, 9s. per lb.

TRAGACANTH.—Quoted values are unchanged, with the market quiet. Finest selected white ribbon, from £90; No. 1, white, £77 10s. to £80; No. 2, white, £65 to £70; No. 3, white, £55 to £57 10s.; pale leaf, £35; amber leaf, £25; red leaf, from £16 10s.; woody and hoggy, from £16 16s. All prices are per cwt., ex store London.

TURMERIC.—Spot, Madras finger, 47s. 6d.; Rajapore, 48s. 6d.; shipment, new-crop, March-April (subject to freight being available), Madras, 32s. 6d. per cent. c.i.f.; Rajapore, 33s. per cwt., c.i.f.

WAXES.—BEES': Owing to lack of stocks business is restricted, values firm: Spot, from 175s.; in bond, 160s.; shipment, Dar-es-Salaam, 160s. per cwt., c.i.f. Japanese, first three brands, spot, 120s., duty paid; shipment, 97s. 6d., c.i.f. CARNAUBA: Forward quotations continue at recent advances. Fatty grey, 325s.; afloat, 300s., c.i.f.; shipment, 290s., c.i.f.; chalky grey, spot, 310s.; afloat, 300s., c.i.f.; shipment, 280s., c.i.f. Primeira, spot, 452s.; afloat, 410s.; shipment, 395s., c.i.f.

Essential and Expressed Oils, etc.

A NUMBER of price changes are recorded. Business has been on the quiet side generally. Anise (star) is reported steadier for shipment. Citronella remains quiet. A fair trade is reported in peppermint, chiefly in Chinese.

ALMOND.—Values unchanged. Small demand. Expressed oil, spot, cwt. lots, 3s. 6d.; smaller quantities, up to 4s. per lb., ex store. French, genuine bitter, firm and dearer at 11s. per lb., ex store. English, distilled, 26s. to 27s. 6d. per lb.

ANISE (STAR).—Market remains dull, and values are unchanged. Spot, tins in cases, about 4s.; drums, 3s. 11d. per lb., ex store; shipment steadier, February–March, tins in cases, 3s. 6d.; drums, 3s. 4½d. per lb., c.i.f.

AVOCADO PEAR.—Small quantities quoted at about 52s. 6d. per gallon, delivered.

BAY.—Routine trade at steady figures. Quoted at from 5s. 3d. to 6s. per lb., ex store, as to quantity.

BERGAMOT.—No shipment offers for Consortium oil are yet available. Spot values remain a matter for negotiation, but about 25s. per lb., ex store, is indicated, with supplies of genuine oil stated to be limited.

BOIS DE ROSE.—Business of small account, with dealers' prices steady: Spot, from 8s. to 8s. 6d. per lb., ex store; shipment offers at about 7s. 6d. per lb., c.i.f., for distant positions.

CARAWAY.—Business in this oil is still on the quiet side, values steady: Dutch rectified oil continues firm at 15s. 4½d. to 15s. 6d. per lb., landed and duty paid; shipment at 14s. 10½d. per lb., duty paid.

CASSIA.—Remains dull. Spot, leads, 5s. to 5s. 3d.; no shipment offers.

CITRONELLA.—Business in both Java and Ceylon oils remains quiet. Ceylon, spot, drums, 2s. 4d. to 2s. 6d.; smaller quantities up to 3s. per lb.; shipment, drums, about 2s. per lb., c.i.f. Java, spot, drums, about 2s. 6d. to 2s. 7½d.; smaller quantities, up to 3s. per lb.; shipment rather firmer at 2s. per lb., c.i.f., but practically no business moving.

CLOVE.—Supplies of Madagascari oil continue restricted: Madagascari, spot, drums, if available, 4s. 6d. per lb.; smaller parcels, up to 5s. 6d.; English distilled, firm at 7s. to 7s. 3d. per lb., as to quantity.

EUCALYPTUS.—The spot market continues firm at recent figures and one source reports fair stocks available. It is becoming increasingly difficult to obtain shipment offers. Spot offers now range from 5s. per lb., as to holder, for 70 to 75 per cent. oil. Shippers are quoting April–May at 2s. 10d. per lb., c.i.f.

GERANIUM.—Steady, but business has been of small account: Bourbon of good quality firm at 15s.; shipment, nominal at 13s., c.i.f. Algerian, spot, about 15s. to 15s. 6d. per lb. Shipment, 15s. 3d. per lb., c.i.f.

LAVENDER.—The market remains dull, with values steady. Firm at source. The limited stocks here of good 38 to 40 per cent. oil are quoted steady at from about 17s. 6d. up to 20s. per lb., ex store. LAVANDIN continues firm at 10s. 6d. per lb., ex store.

LEMON.—The shipment market for new-crop Sicilian remains quiet, with quotations from 12s. 9d. to 13s. 3d. per lb., c.i.f., tins in cases. The spot market remains dull, with genuine oil mentioned at about 16s. to 16s. 6d. per lb., ex store, and blended oils at cheaper prices. Californian oil, cold-pressed, quoted in sterling at 13s. 7½d., at wharf; distilled, regular quality, 8s. per lb., at wharf, with the demand fair.

LEMONGRASS.—Dull on spot at about 4s. to 4s. 2d. per lb. Shipment steadier at about 3s. 5d. per lb., c.i.f., but little business is reported.

LINSEED.—The controlled price for large bulk quantities of crude, packed ex works, is unchanged at the advance recorded recently—to 40 10s. per ton. Distributors' prices for ordinary quantities of crude or boiled, packed and carriage paid, would be at higher figures.

MANDARIN.—Scarcity of spot supplies of genuine oil continues; the price would be about 25s.; shipment firm, 23s. 6d., c.i.f.; crop reported hort.

MUSK.—Limited stocks of caddies of Tonquin pods available in London held for 87s. 6d. to 90s. per oz., as to quality; shipment offers firm at 80s. per oz., c.i.f.

NUTMEG.—Dealers' prices steady, business remains slow: American, 1s. 6d. to 12s., as to quantity; shipment, slightly dearer at 10s. per lb., c.i.f. Dutch, spot, 11s. 9d. to 12s. 6d. per lb., as to quantity, ex store.

OLIVE.—The Ministry of Food controlled price paid by importers for large bulk quantities in 50-gallon drums is unchanged. Distributors' prices for a few gallons, packed in gallon tins, carriage paid, would now range from 11s. 9d. to 12s. 6d. per gallon.

ORANGE.—Shipment of new-crop French Guinea oil is now about 5s. 9d. per lb., c.i.f., in drums, with not much business passing. Spot is nominal at between 5s. and 5s. 6d. per lb., ex store. New-crop oil should shortly be available here. Californian oil is quoted in sterling at 4s. per lb., in small drums, ex store, duty paid, limited supplies only being available.

PALMAROSA.—Limited spot supplies are valued at 11s. 3d. to 11s. 6d. per lb., ex store; shipment is rather dearer, the latest offers being at 9s. 9d. to 10s. per lb., c.i.f.

PATCHOULI.—Any genuine Singapore oil on spot would be worth about 35s., but it is difficult to locate supplies. Seychelles oil also seems scarce, with the value nominal at 27s. 6d. per lb. No shipment offers of any description.

PEPPERMINT.—A small trade is reported, with the market steady. Japanese, spot, 7s. 3d. Shipment, March–April, 8s. 1d. to 8s. 2d. per lb., c.i.f., with no interest shown. Chinese oil is selling steadily, with spot at 5s. to 5s. 3d., according to brand and seller. Shipment, March–April, 4s. 8d. to 5s. per lb., c.i.f. Some oil afloat, shortly due, at 4s. 6d. per lb., c.i.f. American natural oil steady, with business of small size: Quoted at from 2 dollars 90 cents to 3 dollars 5 cents per lb., c.i.f., in tins in cases. Spot, about 16s. per lb., ex store.

PETITGRAIN.—Some fresh spot supplies reported are offered at 10s. per lb., ex store. Shipment, March–April, drums only, offered at 7s. 3d. per lb., c.i.f.

ROSE.—About 45s. per oz. is now the spot value for small quantities of genuine Bulgarian, delivered. Shipment, about £65 per kilo, c.i.f.

ROSEMARY.—Spanish oil is quoted on spot at in the region of 3s. 6d. to 3s. 9d. per lb., ex store.

SPIKE.—Business small. Good-quality Spanish oil is available at about 7s. 6d. to 8s. per lb., ex store. Other grades are at lower figures.

TI-TREE.—Spot supplies continue to be offered by importers at about 52s. 6d. per gall., in tins.

TURPENTINE (AMERICAN).—Values are steady: London, 54s. 9d. per cwt., tax paid, in barrels, ex wharf; Liverpool, 61s., in barrels, ex store.

VETIVERT.—Limited supplies of Bourbon on spot are quoted at about 24s. per lb.; Java, spot, 21s. to 22s. per lb., ex store.

WORMSEED.—Continues firm both spot and forward, with supplies severely restricted. Spot 21s. 6d.; shipment, 20s. 3d. per lb., c.i.f.

WORLD MINERAL INDUSTRIES

No. 8—China Clay

THE following details of world production of china clay are taken from the statistical summary, 1936–1938, of the mineral industry of the British Empire and foreign countries, issued by the Imperial Institute, London, S.W. Figures are in long tons.

Producing country and description	1936	1937	1938
BRITISH EMPIRE			
United Kingdom	746,922	830,946	585,888
Union of South Africa ..	344	413	798
Burma	788	(a)	(a)
Federated Malay States ..	121	263	385
India	17,217	17,081	26,106
Unfederated Malay States	—	30	768
Australia	35,336	16,688	(a)
FOREIGN COUNTRIES			
Austria	(b) 19,622	(b) 19,537	(d)
Belgium (c)	18,848	22,538	(a)
Bulgaria	1,892	3,492	7,663
Czechoslovakia (estimated)	400,000	450,000	400,000
Denmark:—			
Crude	27,700	32,300	37,400
Washed and pressed ..	8,500	9,100	9,750
France	122,900	124,450	(a)
Germany:—			
Bavaria	141,913	157,265	(a)
Prussia	76,795	90,521	(a)
Saxony:—			
Crude	45,855	47,653	(a)
Washed	50,298	59,892	(a)
Thuringia:—			
Sand	5,018	6,392	(a)
Greece	—	300	(a)
Italy:—			
Crude	75,597	96,094	73,772
Kaolinic earth	6,017		
Washed	37,539	37,159	43,630
Portugal:—			
Washed	11,442	10,723	11,768
Kaolinic sand	384	453	189
Rumania (e)	4,610	600	(a)
Sweden	2,668	2,148	(a)
Algeria	2,570	1,634	(a)
United States (f)	570,481	653,823	531,298
Argentina	426	711	(a)
Brazil	(a)	1,593	(a)
Chile	7,900	(a)	(a)
Japan (estimated)	400,000	400,000	400,000
Korea	24,322	(a)	(a)
Manchuria	32,500	(a)	(a)
Dutch East Indies	9	771	(a)

China clay is also produced in U.S.S.R. and China.

(a) Information not available. (b) Exports. (c) "Eurite" and kaolin. (d) Comparable exports not available. (e) Converted from cubic metres at the rate of 1 cubic metre = 2 long tons. (f) Sales of china clay and paper clay.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Profession or Trade

SIR,—Why cannot your correspondents leave "R.C.O." (*C. & D.*, March 2, p. 176) to the dignified professional privilege of "spreading his own plasters and rolling his own pills"? In other words R(oll)I.P. Let them accept that a vast chasm separates the "gent" who "rolls his own" from the tradesman who merely buys and sells a machine-made article even though it be better than its professionally-rolled counterpart.

Yours faithfully,

D.C.B. (1/3).

Students and Examinations

SIR,—I have followed with interest the correspondence on the Pharmaceutical Society's examinations, and as I qualified only three years ago my impressions may be of some interest. With regard to students, I found a "40 per cent. is a pass" psychosis; very few indeed make efforts really to know their subjects, and most of them treat botany as a bore. In my opinion, there is a deplorable weakness in mathematics, resulting in high failures in physics and unpardonable miscalculations in pharmacy and pharmaceutical chemistry. On the whole I found lecturers very painstaking and conscientious, but I feel that many suffer from too narrow an outlook, due to specialisation in particular subjects. So far as examiners are concerned, I feel they are in a difficult position, due to hostility engendered by previously rejected prospective candidates. From experiences in retail pharmacy, I think that many pharmacists could do with a period of study of business methods, which would result in greater efficiency and a better understanding of the methods of our competitors.

Yours truly,

DRUMERAY (25/2).

Distributors' Problems

SIR,—I appreciate the points made by "Wholesaler" under the heading "Distributors' Problems" (*C. & D.*, March 2, p. 176), especially those relating to deliveries, but I think the problem is one for which the wholesaler has largely himself to blame. When I started in business deliveries of patents and sundries came once a week in suburban areas, and an order had to be made up weekly. With the coming of the motor vehicle each distributor speeded up his service in competition with others, until in some districts there were two deliveries a day. There is no reason why, in war conditions, a rule should not be made that orders received up to 9.30 a.m. one day shall be delivered the next. There must be few instances in which a customer requires a proprietary medicine so urgently that he cannot wait two days (the time that would elapse under the suggested method), but in an extreme case there could be a reversion to the old practice of getting the preparation by special messenger. I should think few people would object to paying the expenses of collection in the circumstances. I cannot agree with "Wholesaler" about the ordering of twelfths; if one regularly turns over a dozen a month of a product then certainly that quantity should be ordered in one parcel, but there are many proprietaries which do not sell at this rate. We all have regular customers who insist on a particular preparation for which they are the only purchaser, and one is obliged to stock one of that line. I should like, if I had the opportunity, to analyse proprietary lines to show how many of this nature are in stock compared with those that can be bought in dozens, because I think the analysis would show that one could not eliminate the twelfths from one's daily order without risking being out of stock for some special customer.

Yours faithfully,

STOCKIST (4/2).

State Medicine

SIR,—I gather from the remarks in the Leeds debate "That State Control of Pharmacy is to be Desired" (*C. & D.*, February 24, p. 138) that what the proposers had in mind was a complete State medical service in each town or district with clinics at which any member of the population would be entitled to receive advice, treatment and medicine. The only service in which pharmacists are recognised is the National Health Insurance scheme and this work is undertaken on such a tariff (pharmacists providing their own premises, fittings and utensils) that it could not possibly be done in any other way at anything like the same low cost, that is provided the insured persons were to obtain a similar standard of medicines and dressings. At one time, when

there was a good deal of opposition among chemists to the continuance of the panel service unless the terms and conditions were greatly improved, there were rumours that State dispensaries might be set up to take over the supply of Insurance medicines. There are two main arguments against such dispensaries—the initial outlay, and the improbability that a central dispensary would be able to cope with the congestion caused by the panel patients having to attend at one place (it would be unlikely for more than one dispensary to be opened in each district). One thing almost taken for granted in discussing this idea was that pharmacists would not be included on the staff, but the work would be done by "dispensers under medical supervision." During the Leeds debate it was stated that State control envisaged a unified service on clinic lines, but what prospect would there be that pharmacists would be included as an essential part of the service? It would be interesting to know the views of the medical profession on a State scheme of this kind. These systems do not always work out to the benefit of the general practitioner. For instance, the institution of welfare centres has meant the loss to the doctors of a lot of children's practice, and they might well think of this before supporting a scheme which would remove all their patients to the clinics. There would not be vacancies for every doctor on the staff. If pharmacists were appointed to look after the pharmaceutical side, what would become of the retail pharmacies? Apparently they would disappear, as all the dispensing would be done at the clinics, and it does not require qualified chemists to sell toilet goods, while the retail sale of Part I poisons except as ingredients of compounded medicines is practically negligible.

Yours faithfully,

PANEL CHEMIST (2/3).

MISCELLANEOUS INQUIRIES

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

Universal Lacquer.—*L. N.* (15/1).—The following is suitable for wood, metal, paper, glass, etc.:—

Bleached shellac	6 oz.
Copal	6 oz.
Mastic	6 oz.
Powdered glass	12 oz.
Spirit	120 oz.

Macerate for fourteen days, add 1 dr. of boric acid, and filter. Boric acid seems to give lustre to lacquers, but is really not an essential ingredient.

Honey and Flowers.—*H. D. C.* (24/1).—The following is taken from "Pharmaceutical Formulas," Vol. II, and will probably be suitable for your purpose:—

Oil of sweet orange	10 oz.
Oil of lemon	5 oz.
Oil of bergamot	2 oz.
Oil of clove	½ oz.
Oil of lavender	1½ oz.
Geraniol (palmarosa)	1 oz.
Coumarin	½ oz.
Musk (synthetic)	¼ oz.
Castor oil	50 oz.
Colouring	a sufficiency
Alcohol	50 oz.
Peach-kernel or mineral oil	5 gall.

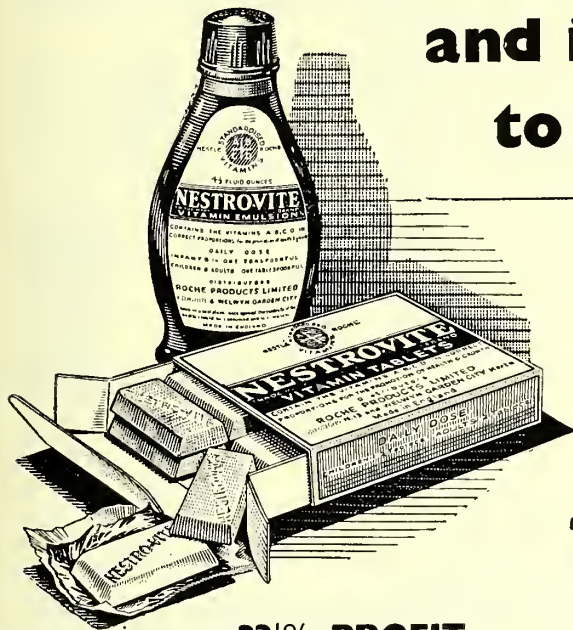
If a suspicion of honey odour is required, add one or two drachms of phenyl acetic ether (the odour develops after a week or so).

Bath Salts.—*D. M.* (16/1).—For colds, a pine preparation would afford some relief, and an example of a suitable formula is as follows:—

Pine needle oil	½ drachm
Borax	3 oz.
Sodium chloride	to 8 oz.

In place of the last-mentioned ingredient, sodium sesquicarbonate might be used. As a bath for the treatment of rheumatism, an alkaline preparation such as sodium sesquicarbonate with or without borax could be supplied, and as an alternative we suggest sodium bicarbonate with 20 per cent. of sodium chloride.

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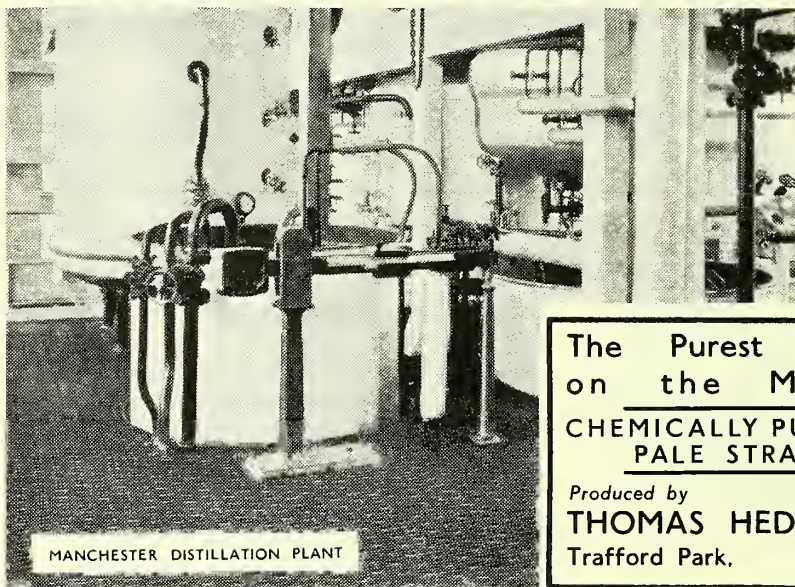
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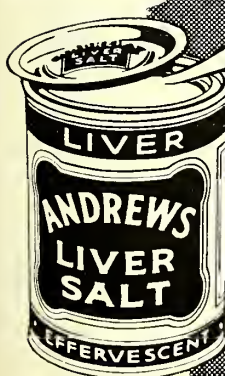
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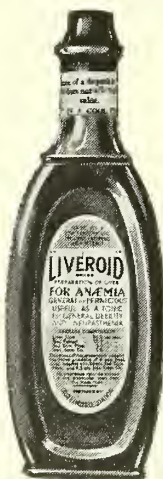
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28 ESSEX STREET, LONDON, W.C. 2

MARCH 9
1940

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PATENTS

PATENTS AND DESIGNS ACTS, 1907 TO 1938

Notice is hereby given that Stanley George Allen, of "Frankena," Broomleaf Road, Farnham, Surrey, seeks leave to amend the specification of Letters Patent No. 505,315 granted to him for an invention entitled "Improvements in or Relating to Teats for Infant Feeding Bottles."

Particulars of the proposed Amendment were set forth in No. 2668 of The Official Journal (Patents), published on March 6, 1940.

Any person, or persons, may give notice of opposition to the Amendment by leaving Patents Form No. 19 at the Patent Office, 25 Southampton Buildings, London, W.C.2, within one calendar month from the date of publication of the said Journal. M. F. Lindley, Comptroller-General.

AGENCIES

LONDON Manufacturing Chemists covering the country would consider Agency in a Good Speciality. 362/280, Office of this Paper.

AGENTS and Traders required for a new production of torches with unique appeal for summer trade. Generous discounts and good territory open to right agents. Cornhill Manufacturing Co., Erskine Road, Loudou, N.W.3.

SITUATIONS OPEN

RETAIL (HOME)

ABERDEEN.—Qualified Assistant required. Particulars of experience, age, height, when disengaged, to Hunter, Chemist, 107 Union Street.

EAST LONDON. Young Lady Assistant required (unqualified). Apply by letter, with usual particulars, in first instance, stating salary required, etc., to F. H. Bursell, 17 Plashet Grove, East Ham, E.6.

LONDON, E. Assistant, married (qualified preferred but not essential), to live on premises, four rooms available; one used to middle-class trade and N.H.I. dispensing. Give full particulars of experience, names of references, when disengaged, age and salary expected. Apply (letter only), Chemist, 300 Amhurst Road, London, N.16.

LONDON South-West. Unqualified Assistant (about 30), experienced Dispenser and Good Counterperson for brisk cash business. Commence £3 5s. weekly with prospects, for capable man. State age, height, details of experience and when at liberty. 215/27, Office of this Paper.

LONDON, S.W. Unqualified Female Assistant required for family type business in Clapham. All round experience preferred but not essential. Apply CDB/92, Office of this Paper.

LONDON. Young lady with some experience required for working-class pharmacy. Excellent prospects for all-round worker; window-dressing an advantage. Apply CDB/93, Office of this Paper.

MIDLANDS. Taylors British Chemists require Pharmacist for relief duties; view permanency to suitable man. Apply by letter, giving full particulars, to Retail Staff Department, Taylors British Chemists, 70 Vauxhall Bridge Road, London, S.W.1.

PADDINGTON. Experienced Lady Assistant required for Chemist's shop, with window-dressing ability. Apply CDB/94, Office of this Paper.

PICCADILLY District. Unqualified Assistant, male, must be a good window dresser and salesman. State height, age, experience and salary required. 215/22, Office of this Paper.

SOUTH Coast.—Unqualified Assistant (lady). Counter, Stock, general knowledge Toilets; Dispensing not necessary. Write fully first letter, age, height (medium preferred), experience, salary required, etc., Wadsworth, Shoreham-by-Sea, Sussex.

WORTHING. Junior qualified or unqualified Assistant required for good class Dispensing Business. Full particulars in first letter; age, height, experience and salary expected. 362/279, Office of this Paper.

A QUALIFIED Chemist wanted for London; permanency; good counterperson, window dresser and accustomed to N.H.I. dispensing. Please give full particulars, age, experience, salary, etc., also photo, to 215/12, Office of this Paper.

DRUG Department. Wanted, qualified Lady Assistant, knowledge of Surgery, Fitting, Child Welfare, etc., an advantage, for central premises. Reply giving age, wage, experience and references to Brightside and Carbrook Co-operative Society, Ltd., City Stores, Exchange Street, Sheffield, 1.

JUNIOR Assistant Pharmacist (lady) required, hours 9 a.m. to 5.30 p.m. Duty every third Sunday. Hospitable experience desirable; salary according to experience. Applications, stating age, qualifications and experience, together with copies of three recent testimonials, to be sent to the undersigned. H. M. Stanley, House Governor and Secretary General Hospital, Nottingham.

LADY Assistant for Chemists Department; knowledge of Dispensing, Toiletries and general Pharmacy routine. Applications by letter, stating wages, experience, etc., not later than March 14, endorsed "Lady Assistant," to the "Secretary," Pendleton Co-operative Industrial Society Limited, 3 Mill Street, Pendleton, Salford, 6.

QUALIFIED Lady Locum required March 23-30 inclusive, no Sunday or Bank Holiday duty. Lady Chemists, Ltd., Mill Hill, London, N.W.7. Tel.: M.H. 1366.

QUALIFIED Young Male Assistant required for busy Family Dispensing Business. State age, experience, and wages required. A. W. Hanson, Ltd., 23 High Street, Slidenp, Keut. Foots Cray 2008.

REQUIRED soon for good family business, Sussex coast, qualified Assistant, young, good dispensing and counter experience. Also junior or improver. Full particulars, and salary required, to 215/15, Office of this Paper.

TIMOTHY WHITES & TAYLORS have vacancies for relief Chemists in London and South. Opportunity to increase experience with likelihood of promotion later. Send written applications showing details of past experience, to Retail Staff Manager, Timothy Whites & Taylors, Ltd., 70 Vauxhall Bridge Road, London, S.W.1.

UNQUALIFIED Assistant for Branch Shop; permanency; either sex; no dispensing or poisons; Salary and commission; no Sunday or Bank Holiday duty. Write or apply in person to Hankinson, Ltd., 223 Ilford Lane, Ilford.

UNQUALIFIED Assistant, Lady or Gentleman, wanted, accustomed to quick N.H.I. dispensing. Please give full particulars, age, experience and salary required. Clarkson, 113 Elland Road, Leeds, 11.

UNQUALIFIED Assistant, over 35, required at end of April. To live over shop. Good salary and comfortable house rent and rates free. Must be a really good dispenser and used to good-class business. Permanency. Kirkman, Chemist, New Milton, Hants.

UNQUALIFIED Man wanted after Easter. Dispensing and counter. Write, giving age, references, salary required and photo. Baker & Fairhead, Colchester.

YOUNG Lady Assistant required, unqualified, capable dispenser, knowledge of Toilet Requisites, Window-dressing. Give particulars of salary, experience, age and references, photograph (to be returned). T. H. Parker, Ltd., Chemists, 25 High Street, Hailsham, Sussex (seven miles from Eastbourne). No Sunday or half-day duty.

YOUNG Lady Assistant required, Unqualified; Capable Dispenser, with knowledge of Window-dressing, and Toilet Requisites. Please give full particulars, salary, age, experience and references. Goode, 63 High Street, Steyning, Sussex. Telephone Steyning 3167.

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WHOLESALE

LABORATORY Assistant for Mixtures, etc. Gale Baiss, & Co., Ltd., 274 Ilberton Road, London, S.E.15.

PASTILLES—London manufacturing Chemists require experienced man for making medicated pastilles and jubes. Write stating experience, and wages suggested, CDB/95, Office of this Paper.

PERFUMERY and Cosmetic Factory in East London. Required, Junior Lady Chemist. Salary about £2 10s. weekly. 362/281, Office of this Paper.

SALES OFFICE ASSISTANT

(FEMALE)

Applications for the above position are invited—good experience in retail pharmacy is essential but qualification is not required. Candidates must possess reliable business habits and should have a flair for dealing with correspondence. Age not above twenty-three. Apply (by letter only), giving full details of education and business experience, and state age and salary expected, to SOA, c/o Glaxo Laboratories, Ltd., Greenford, Middlesex.

REPRESENTATIVES required calling on photographic chemists and stores to introduce new high-quality apparatus as additional line. Small salary and commission or commission only. One or two whole-time men also considered. 215/6, Office of this Paper.

REPRESENTATIVE required for Derby, Notts and Lincs, also Devon, Cornwall and Gloucester, to work prophylactics on high commission basis. Part-time man preferred with good connexion amongst chemists. 215/24, Office of this Paper.

THE ASSOCIATION OF MANUFACTURING CHEMISTS, LIMITED
 (Business Agency, Transfer & Valuation Department)
 KIMBERLEY HOUSE, *and at* 5 RUMFORD PLACE,
 Holborn Viaduct, LONDON, E.C.1 LIVERPOOL, 3.
PARKIN S. BOOTH, Valuer. Tels.: CITY 3691 (4 lines)
VALUATIONS. SALES OF BUSINESSES. STOCKTAKINGS.
Enquiries Invited.

BUSINESS FOR DISPOSAL

MIDLANDS.—Offers wanted for old-established Wholesale Drug-gists Sundries business. Property to be taken to Principals or Solicitors only. Thomas Coates & Ensor, 57 and 58 New Street, Birmingham.

AGENCIES

AGENTS with established pharmaceutical connexion in London, Midlands, and other areas required to extend business in General Medicinal Tablets, Pills, etc., and other pharmaceutical products both bulk and packed. Excellent opportunity for experienced men. 213/7, Office of this Paper.

QUALIFIED Chemists, already travelling wholesale and retail Chemists, wanted to carry additional regular repeating line. Unimpeachable references given and wanted. 360/232, Office of this Paper.

APPOINTMENTS

ROMFORD ISOLATION HOSPITAL

APPOINTMENT OF DISPENSER-BOOK-KEEPER

APPLICATIONS are invited for the post of Lady Dispenser-Book-keeper. Duties are mainly clerical in the Medical Superintendent's Department, distribution of dispensary stores, instruments, etc. Shorthand and typing are essential. Preference will be given to applicants with the Hall Certificate.

The post is a superannuated one, and subject to satisfactory medical examination.

Salary £3 per week, with lunch and tea daily.

Applications stating name, age, previous experience, etc., and accompanied by copies of two testimonials, or names for reference to be sent to the Medical Superintendent, Isolation Hospital, Rush Green, Romford, Essex, not later than March 12, 1940.

FOR SALE

NATIONAL Cash Register, prints and adds all takings. One owner, perfect condition. Write S. Watson, 3 Mandeville Houses, Chapel Street, N.1.

EXCHANGE COLUMN

WANTED

WANTED, Caluden Tablets. R. Woolby Brooke, 38 Gloucester Road, London, S.W.7.

EDUCATIONAL

CORRESPONDENCE and Personal Tuition in Optics and Sight Testing.

C. V. BOLTON, F.S.M.C., 49A LEIGH ROAD, LEIGH, LANCs. TEL.: 527.

MISCELLANEOUS

£2?—COMPLETE CHEMIST FITTINGS at any price you wish to pay. We have erected in our Showrooms a Complete Chemist's Shop with Metal Shop Front, Window Backs, Correct Window Lighting, Signs and Modern Interior Fittings. Apply for Lists, D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

ALL DRUG AND FINE CHEMICAL WORKERS SHOULD JOIN AT ONCE

THE CHEMICAL WORKERS' UNION

Reg. T.U. No. 1696 - Founded 1912

BENEFITS: Trade Protection, Legal Aid; Unemployment Benefit, Free Use of Employment Bureau

WRITE FOR PARTICULARS: Arthur J. Gillian, Gen. Sec., 149 Newington Causeway, London, S.E.1

SITUATIONS OPEN

RETAIL (HOME)

L EEDS.—Qualified Senior Assistant (Male or Female), and Un-qualified Junior Assistant (Male or Female). Middle-class Cash and N.H.I. experience essential. State full particulars and salary required. Hirst, 365 Harehills Lane, Leeds, 9.

L OONDON, W.1.—Junior Qualified Assistant required for high-class Dispensing business; excellent prospects. Full particulars in first letter: age, height, experience and salary expected. 362/276, Office of this Paper.

OXFORD.—Unqualified Junior Assistant, Male or Female, required shortly in high-class family business; chiefly for Dispensing. Send fullest particulars of all experience, state age, salary required, when free, and enclose photo. Write Bellamys Dispensing Chemists, 22A Merton Street, Oxford.

PHARMACY: Female Assistant required, must have had Pharmaceutical and General Shop experience. Widows and single persons only considered. Apply in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society Limited, 113 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." Note:—Canvassing of members of the General Committee or Officials will disqualify.

UNQUALIFIED Lady Assistant (worker), for Counter and Dispensing (Bournemouth district). State wage, usual particulars, snapshot if possible, and apply letter only. 26 Fernside Road, Winton, Bournemouth.

WHOLESALE

EXPERIENCED Tablet Maker, with knowledge of coating. Opportunity offers form an capable of building up a department. Apply, 362/274, Office of this Paper.

JUNIOR Analyst required for Laboratory, N.W. London. Good knowledge general routine analysis, quick worker. State age, nationality, full particulars education and experience and salary required to 208/1, Office of this Paper.

TABLET Maker and Sugar Coater wanted, for London Wholesale Druggists. 362/270, Office of this Paper.

TO AMBITIOUS PROPRIETARY HOUSES. The Advertising Manager of one of the most successful proprietary houses to-day (not liable for military service) is willing to accept a similar position, either permanently or for duration (minimum, one year). Salary for temporary post, not less than £1,000 p.a. Accustomed to handling a wide range of nationally marketed medicinal and toilet lines, many of which are leaders in their field. 362/275, Office of this Paper.

TRAVELLER for Medical and Surgical firm with extensive facilities. Some connexion appreciated. Eastern Counties, Yorks and Notts area, or South Wales open. Permanent post if successful, with opportunities for advancement. Salary and commission. 213/10, Office of this Paper.

SITUATIONS WANTED

RETAIL (HOME)

UNQUALIFIED, energetic, middle-aged, accustomed to country market town and busy counter trade. Life experience in all branches, capable management. Seeks progressive permanency. 211/5, Office of this Paper.

LOCUM SEEKING ENGAGEMENT

CHEMIST (London address), Locum or Permanency, experienced, highly recommended, disengaged, March 18th; London or provinces, anywhere. "Chemist," 1 Regent Street, Burnham-on-Sea, Somerset.

WHOLESALE

A WELL-KNOWN REPRESENTATIVE, covering Warwickshire, Staffordshire, Worcestershire and South Wales; many years on this ground. Good references. Toilets and Chemists' Goods. CDB/90, Office of this Paper.

IRELAND.—Chemist (33), University trained, wishes to represent good house for Medical Propaganda or Ethical lines. 207/7, Office of this Paper.

REPRESENTATIVE covering leading Chemists in London, Middlesex, and Surrey, is free to handle on commission one good additional agency. 362/277, Office of this Paper.

REPRESENTATIVE.—Gentleman (39), desires represent House of repute. Own car. Experience in all branches trade. Commission and expenses. "Rep," 566 Hertford Road, Enfield.

BUSINESSES FOR DISPOSAL

WEST Country. Very profitable mixed Drug and Herbal stores, taking £19-20 weekly. Business has nowhere near reached its peak. Chance for unqualified but chemist would do exceptionally well. £500 all at or valuation. Owner shortly being called up. 213/14, Office of this Paper.

A SAFE residential area in beautiful Knaresborough suburb, growing district. Nearest chemist hairdresser 1 mile. No optician and scope for an enterprising chemist which visitors require now onwards. House and Shop £800 or £52 p.a. nett. Abbott, West Park V., Knaresborough. (Phone: 3105).

ALLED to the Colours. For quick sale, good drug store business in E.R. Yorks. Fine opportunity for man with agricultural knowledge. Nearest private chemist 14 miles. Turnover £1,200. 362/282, Office of this Paper.

PATENTS

PATENTS AND DESIGNS ACTS, 1907 TO 1938

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REPRESENTATIVES required calling on photographic chemists and stores to introduce new high-quality apparatus as additional line. Small salary and commission or commission only. One or two whole-time men also considered. 215/6, Office of this Paper.

REPRESENTATIVE required for Derby, Notts and Lincs, also Devon, Cornwall and Gloucester, to work prophylactics on high commission basis. Part-time man preferred with good connexion amongst chemists. 215/24, Office of this Paper.

REPRESENTATIVE Wanted.—Old-established lines, commission basis, South England, excluding London, S.E. Coast, Scotland (above Fife). 362/278 Office of this Paper.

WANTED, a General Assistant, unqualified, for small Lancashire manufacturing wholesale chemists. Age about 30. Must be willing and adaptable and have served an apprenticeship. Apply with full particulars as to experience, wages required, married or single, to 215 2s, Office of this Paper.

WANTED, an experienced Invoice Clerk for Provincial House, exempt from Military Service. State full particulars of experience to "Aloes," CDB/91, Office of this Paper.

SITUATIONS WANTED

RETAIL (HOME)

ADVERTISER, middle-aged, long West-End dispensing experience, seeks similar berth or suburbs. Temporary or otherwise. Little, 260 Sandycombe Road, Kew Gardens, London.

ASSISTANT, unqualified, over military age, requires situation anywhere, but country preferred. Reliable references. 215/11, Office of this Paper.

CAPABLE Assistant, Unqualified (41), married; 27 years all-round experience, 12 years West End; good Dispenser, first-class salesman. 214/15, Office of this Paper.

LADY Dispenser, Book-keeper (Hall), also Laboratory Assistant, seeks post with Doctor, Hospital or Chemist. "Dispenser," 4 Iron Bridge, Exeter.

LADY Dispenser (Hall), one year's hospital experience, requires post, full or part-time, town or country. Val., 35 The Park, Ealing, London, W.2.

M.P.S. (56) energetic, desires post as Manager Superintendent Assistant, good all-round experience, disengaged. 215 1, Office of this Paper.

LOCUMS SEEKING ENGAGEMENTS

CHEMIST, Registered, elderly; locum Superintendent or otherwise; disengaged, moderate terms, satisfactory references. "R," 38 West Brampton, Newcastle, Staffs.

LADY, Unqualified, seeks post, Dispensing and Counter; free now. Locum or permanency. "Chemist," 7 Dunbar Road, Forest Gate, E.7.

MR. ERNEST G. A. WILLIAMS, M.P.S., is available for Locum and emergency relief duties; Devon and Cornwall. 57 Vallant Avenue, Higher St. Budeaux, Plymouth.

WHOLESALE

ADVERTISER forced by war conditions to suspend own business is available for immediate position. Has held executive position with leading House and has represented important firms. Complete knowledge of the trade including export. Over military age. Excellent references. 215/21, Office of this Paper.

As Representative, 41, tall, good appearance, 25 years all-round knowledge of the trade; Drugs, Proprietary or sundries. Rhet., 133 Fawnbrake Avenue, Herne Hill, S.E.24.

COSMETIC manufacture, thoroughly experienced and practical compounder/formulator, seeks situation. Exempt military service. "F," 6 Pemberton Terrace, London, N.19.

ENERGETIC (40) seeks executive post. Warehouse Manager or similar. Twenty-six years' experience. References supporting ability to control. Rudd, 29 Broadway, Woodford Green, Essex.

GENERAL Foreman or Factory Supervisor (35). Advertiser used to co-ordination and acceleration of output, seeks position with progressive London House, where initiative and reliability are essential. Moderate salary. 215/14, Office of this Paper.

N. IRELAND.—Gentleman, age 24, keen, conscientious, hard worker, good appearance and address, competent driver; 7 years retail experience, seeks position as Representative. Can be highly recommended. 215/3, Office of this Paper.

PROGRESSIVE propagandist in contact with nursing homes for chronics and public assistance hospitals will be interested in new and to incontinent nursing; recommended in medical and nursing Press. Write Blunfield, 140 Alder Road, Liverpool.

REPRESENTATIVE, disengaged owing to war; 22 years connexion Chemists, stores, etc., Home Counties; 850 active accounts; own car full or part-time. 214/6, Office of this Paper.

TO London Manufacturing Chemists. Managing Director of successful private company can afford part-time services to new or growing firm. Thorough knowledge of manufacturing and marketing both home and export, advertising, literature composition, etc. Reply in confidence. Remuneration by results. 214/11, Office of this Paper.

MISCELLANEOUS

OFFERS wanted: 2 cwt. Greaseproof Paper; 100,000 Half-gramme Crushable Ampoules; 80 lb. Stannic Oxide; 20 lb. Oil Citronella; 2 lb. Oil Aromatic Bitter; 1 cwt. Acid. Phosphate; 20 lb. Cinnamic Aldehyde; 4 lb. Oil Scroll big; 14 lb. Styraz; 10 gross 4 x 1 Alumina Tubes; 21 x 14 Turned Wood Boxes; Manesty Hand Tablet Machine; Upright Sifter and Mixer; 20 gross 2 oz. Square and Pear-shaped Pol-Lip Salve Moulds. Sanovla, 72A Angell, Brixton.

NATIONAL PHARMACEUTICAL UNION

MEETINGS of the Executives of the National Pharmaceutical Union and Chemists' Defence Association were held at 4-5 Queen Square, London, W.C.1, on February 27, Mr. B. Pugh Davies in the chair. The Committee received a report on interviews with the chairman of the Central Committee on the Prices of Goods Act as it affected the drug trade. The decision of the Ministry of Home Security not to permit the use of a distinguishing "black-out" sign by chemists; supplies of ext. glycyrrhizic liq. and olive oil; and the prices of surgical dressings, were discussed. The establishment of a War Distress Loan Fund was further considered. The secretary reported that inquiries in other trades as to distress caused to retailers in evacuated areas indicated that there had not been sufficient distress to warrant an appeal to the Government for relief from National funds or other sources. Resolutions from branches on N.H.I. dispensing fees, hours of business, and the licensing laws, were considered. A report submitted on work undertaken by the Clearing House during the twelve months ended December 31, 1939, showed a considerable increase, to a record amount. The terms of the present National Health Insurance contract with the Ministry of Health were discussed.

N.P.U., Ltd.

A meeting of the directors considered a report on a meeting of the Chemists' Friends Council held on February 20, and the accounts of the company for the year ending December 31, 1940. Arrangements were made for the annual meeting to be held at 11 a.m. on Wednesday, March 27.

Chemists' Defence Association

The secretary reported on cases that had been left in his hands. In eighteen there was nothing further to report. One had been settled, and negotiations were proceeding in three others. In one case £1,400 had been paid into Court on behalf of a member, and the Registrar had approved acceptance of this amount by the claimant in settlement of the claim. Taxed costs of the plaintiff, amounting to £400, would be payable by the Association on behalf of the member. Of twelve claims that had arisen since the previous meeting six had been settled. The settlements were:—Damages to plate-glass windows by cycling errand boy (payment of £6.3s.); spectacles accidentally destroyed by chemist to whom they had been brought for repair (replacement); damage to customers' clothing caused by contact with gas jets, two cases (payments of £1). Two members had been defended in proceedings under the Dangerous Drugs Act. On one a fine of £5 had been imposed; the other case had been dismissed on payment of £2 2s. costs. A defended summons under the Lighting (Restrictions) Order had been dismissed on payment of 4s. costs. Legal advice has been given to members upon a variety of subjects and four analyses have been provided under the free analysis benefit. Twenty-six shares were transferred.

Chemists' Friends Council

A meeting of the Chemists' Friends Council was held at 4-5 Queen Square, London, W.C.1, on February 20, Mr. S. J. Stearn in the chair. An application from a manufacturer for inclusion of his products in the C.F. List was not accepted, owing to the unsatisfactory terms offered to the retailer; the secretary was instructed to try and obtain more satisfactory terms. Of five applications from wholesalers for inclusion in the list of approved distributors of C.F. goods, the following were accepted: F. Storey, Ltd., 73 Ann Street, Belfast; R. Smith & Co., 44 Foyle Street, Londonderry. Their names were placed in Section B of the list. The Council approved a recommendation of the Scottish Pharmaceutical Federation that T. & H. Smith, Ltd., 32 Virginia Street, Glasgow, and Harkness, Beaumont & Co., Ltd., Edinburgh, should represent Scottish manufacturers and wholesalers respectively on the Scottish C.F. Committee, with Messrs. J. Weir and W. T. Elder as representatives of the Federation. Other matters connected with the extension of the C.F. movement were deferred until after this Committee had met. The Council dealt at this meeting with the revision of terms and prices of certain C.F. goods and the increased advertising rates charged to national advertisers by newspaper proprietors. The Council approved the work and programme of the C.F. propaganda Committee. Five wholesalers were elected members.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

Council Meeting

AMONG matters transacted by the Council of the Pharmaceutical Society of Great Britain at its meeting on March 5 were:—

SALE OF MEDICATED WINES BY CHEMISTS.—A report was received upon the results of the inquiries that had been made in connexion with the proposal of the Southport Branch that chemists should have the right to sell medicated wines. The report showed that there was no likelihood of suitable legislation during the war and the Council decided that the matter did not call for further consideration at present.

BUSINESSES ADVERSELY AFFECTED BY THE WAR.—A report was received upon the inquiries conducted jointly by the Society and the National Pharmaceutical Union on this matter among other organisations representing retail business interests. The report showed that, with one exception, all the organisations had replied that although there had been cases of distress among their members these had not been sufficient to warrant an appeal to the Government for relief from National Funds or any other special action. The council agreed that there were insufficient grounds for pharmacy to act independently but that the situation should be watched and the matter considered again if necessary.

RESOLUTION FROM THE BLACKPOOL BRANCH.—The following resolution and a supplementary letter were received:—"That this Branch is dissatisfied with the way in which the Pharmaceutical Council are administering their responsibilities and would appreciate greater efficiency in their administration of matters which concern the financial status of members." The secretary was instructed to reply to certain points mentioned in the letter.

Wednesday's Proceedings

A meeting of the Council was held at 17 Bloomsbury Square, London, on March 6, the president, Mr. Deacon, in the chair.

PHARMACISTS IN THE ARMY

The status of pharmacists in H.M. Forces was the subject of a recommendation by the Organisation Committee, which had considered a resolution by the Conference that the Council should continue to press for commissioned rank for pharmacists holding pharmaceutical positions. In deciding that the resolution be received the committee recalled that for very many years the Council had advocated the establishment of an adequate pharmaceutical service in H.M. Forces and that as a result of continued pressure much advance had been made. The relationship between the Society and the appropriate Government Departments had improved, and the value of the pharmaceutical qualification was well recognised by the War Office. The dispensing arrangements in the Army had been considerably improved as a result of the Society's work. There were now some 200 pharmacists serving as sergeants. Some had already been promoted to staff sergeants and there was every reason to anticipate further promotion to commissioned rank in the quartermasters' branch.

ANTI-GAS OINTMENT

The secretary reported that at the invitation of the Ministry for Home Security he had attended a meeting of the British Standards Institution at which it was proposed to standardise anti-gas ointment, and had suggested that it was undesirable for that to be done without consultation with the Society. In that attitude he was supported by representatives of other organisations that were familiar with the work of the Society. Finally he had received an assurance that it was not the intention of the Institution to proceed with any standardisation of medicinal preparations, and that the anti-gas ointment would be regarded as a protective device rather than a medicinal device. The Institution was preparing all sorts of A.R.P. preparations.

The report of the Government Inspector on Examinations held in Edinburgh during 1939 was submitted, and Mr. ROWSELL drew attention to the following comment of the Inspector, Dr. Ralph Stockman, on the Pharmaceutical Chemist Qualifying examination:—"Considering the stringency and wide scope of the examination these results are not unsatisfactory, and show that

the training of the candidates is on the whole efficient. The best of them are very good. It has to be borne in mind that this examination is on a very considerably higher plane than that for the Chemist and Druggist qualification, and that only a few of the ablest students attempt it.

REGISTRATION ITEM

Eighteen persons were elected student-associates and eleven persons were restored to the registers of Pharmaceutical Chemists and Chemists and Druggists. The registrar reported that since the last meeting sixty-six persons had been registered as apprentices or students.

PROFESSOR GADDUM

The Dean reported that he had received a letter from the Minister of Supply informing him that the Ministry would pay Professor Gaddum at the rate of £1,000 per annum as from January 1, 1940. The Minister also conveyed an expression of his appreciation of the valuable assistance which the universities were rendering to the nation's war effort in putting at the disposal of the Government the resources of their staffs and laboratories.

FINANCE COMMITTEE

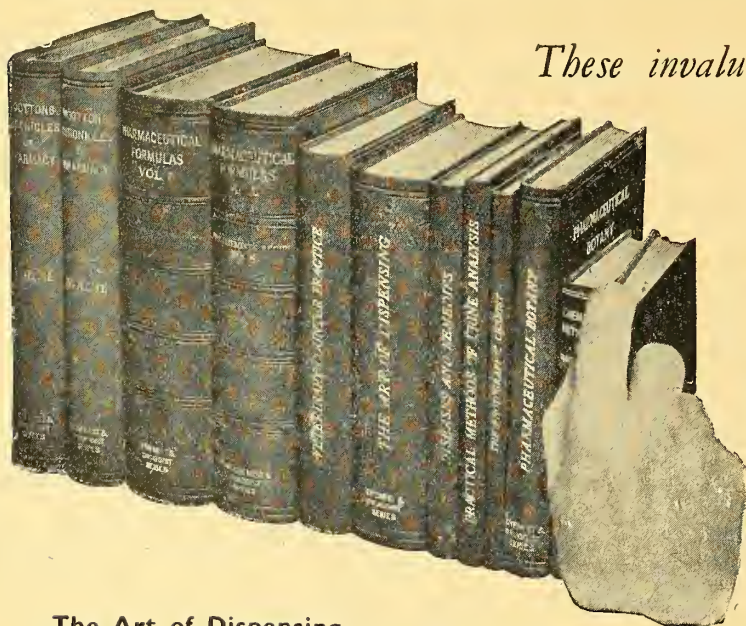
The financial statement showed that receipts since the last meeting including a balance of £37 3s. 6d., amounted to £21,482 4s. 2d., comprising the following items: Members' fees £13,049 8s.; premises fees £6,077 8s.; subscriptions £78 15s.; College: school of pharmacy £64 11s. 8d.; pharmacological laboratories £133 7s.; grant from the University of London £162 10s.; examinations £59 17s.; registration fees as apprentice or student £105; registration fees as chemist and druggist £5 5s.; restoration fees £3 13s. 6d.; law—penalties and expenses £30 14s. 6d.; "Pharmaceutical Journal" £1,120 10s. 11d.; Pharmaceutical Press £443 13s. 7d.; F.S.S.U. contributions £31 8s.; Chemical Defence Research Department—refund, Professor Gaddum's salary £70; sundry receipts £8 12s. 6d. Payments ordered at the last meeting amounted to £16,255 5s. 5d. and £5,200 had been transferred to Deposit Account, leaving a balance of £26 18s. 9d. The amount on Deposit Account was £15,350. The balances on the other accounts were: Benevolent Fund (Current Account), £45 11s. 2d.; amount on Deposit Account £2,400; Benevolent Fund (Donation Account) £19 13s. 5d.; Deposit Account £930; War Auxiliary Benevolent Fund £20 4s. 6d.; Deposit Account nil; Hills Orphan Fund £28 19s. 6d.; Deposit Account £450; Orphan Fund £16 0s. 11d.; Deposit Account £480. Payments made by the secretary amounting to £1,780 11s. 0½d. were approved, and the treasurer was authorised to pay accounts amounting to £26,817. The trustees of the Pharmaceutical Trust were requested to reimburse the Society the sum of £370 12s. 6d. being the amount of education salaries. It was reported that the accounts for payment included the final certificate in respect of the original building contract with Carmichaels. With this certificate the total payments to the contractors amounted to £59,148 15s. 6d. against the architect's estimate of £60,000 for the work done to September 29, 1939, a saving of £851 on the estimate. The report also stated that the cash resources of the War Auxiliary Benevolent Fund required replenishing. There remained £354 18s. 5d. of 4 per cent. funding stock in the fund which, when sold, would result in about £400 cash being available for grants; when that had been expended the fund would come to an end. The Council gave authority for the stock to be sold as recommended.

RETENTION FEES

A recommendation of the Organisation Committee that no general exemption from payment of retention fees be given to members in H.M. Forces or to members suffering hardship owing to the war but that cases should be considered by the Council on their merits was approved.

ANNUAL MEETING

The annual meeting was fixed for Wednesday, May 15



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